



**gesis<sup>®</sup> MINI**  
the pluggable electrical installation  
with a compact design

**Small and powerful**









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gesis® MINI



## GST 15i2

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**Form, space, color and light:**

Store design and exhibition construction are becoming increasingly more professional. An electrical installation system also has to confront this development by making itself almost "invisible". Just like **gesis<sup>®</sup> MINI**, the pluggable electrical installation concept in a compact design.



## Mini following the trend

Store design as well as exhibition construction focus on the perfect product experience. Lighting facilities directly on the shelf are becoming increasingly more important, resulting in a more effective illumination, a better presentation and finally more sales. The electrical installation system must also follow this development.

It is important that only one installation system with compact components is used, as both the electronic ballast and the luminaires become increasingly smaller. With the trend towards miniaturization, another development intensifies: nothing is built for eternity any more – the retrofit cycles for presentation systems become shorter and shorter. The electrical installation system has to stand up to this as well. **gesis®** MINI delivers on both demands and combines a minimum in size with a maximum in flexibility. Everything according to the principle of pluggability.



Picture in original size



### Smaller space – larger sales:

The battle for the consumer is decided more and more at the point of sale. The economic principle is: sales as high as possible in spaces as small as possible. This is one of the reasons for the trend towards miniaturization.

### Mini is maxi:

The trend towards miniaturization in lighting comprises the whole system. One example is the TL-5 fluorescent lamp with a diameter of only 16 mm. Smaller and smaller installation spaces for the electrical installation system are the result.





## Mini fits in everywhere

The use of **gesis**<sup>®</sup> MINI is not restricted to striking illumination scenarios in displays, showcases or shelves. The 2, 3, 4 or 5 pole system designs also enable versatile use – even in the form of DALI applications.

The compact connector system can also be used, for example, in connection with unfinished constructions, where tight space for electrical installations is a daily occurrence. Façade components can be pre-assembled in a special way – sunblinds, alarm wire-mesh or magnetic switches are plugged in on site quickly and easily.

But the scope of **gesis**<sup>®</sup> MINI is far greater. Thanks to its small dimensions the system is also perfectly suitable for technically optimal, standard-compliant electrification of outlets or luminaires which are installed, for example, in office or kitchen furniture.



### **Interior fittings for vehicles:**

For interior fittings in vehicles, for example the electrical installation of mobile homes or campers, every inch counts. Here **gesis**<sup>®</sup> MINI keeps scoring as well with its small dimensions.

### **gesis**<sup>®</sup> MINI as standard component:

Not only in luminaires but also in outlets or cable ducts, **gesis**<sup>®</sup> MINI can be installed as a standard component.





**Pre-assemble – plug in – finished:**  
**gesis**<sup>®</sup> MINI is an optimal interface between the facade and the electrical trade. Following the plug & play principle, pre-assembled components only have to be combined on site.





## Mini always fits

**gesis**<sup>®</sup> MINI adds an important facet to the **gesis**<sup>®</sup> family. While previously wiring with terminal blocks was tedious detail work, the complete power distribution can now be installed consistently with pluggable components – even in barely accessible corners of a shelf or facade. Even most confined spaces are no longer a problem. And the best part: installation can be implemented with 250V and 16A.

**gesis**<sup>®</sup> MINI offers all the benefits of the classic **gesis**<sup>®</sup> system. A few flicks of the wrist and the connection is made. In total this means enormous savings in time and reductions in costs for the initial installation – not to speak of the follow-up costs for error diagnostics or laborious reworking. Another benefit: even modifications can be implemented quickly and easily.

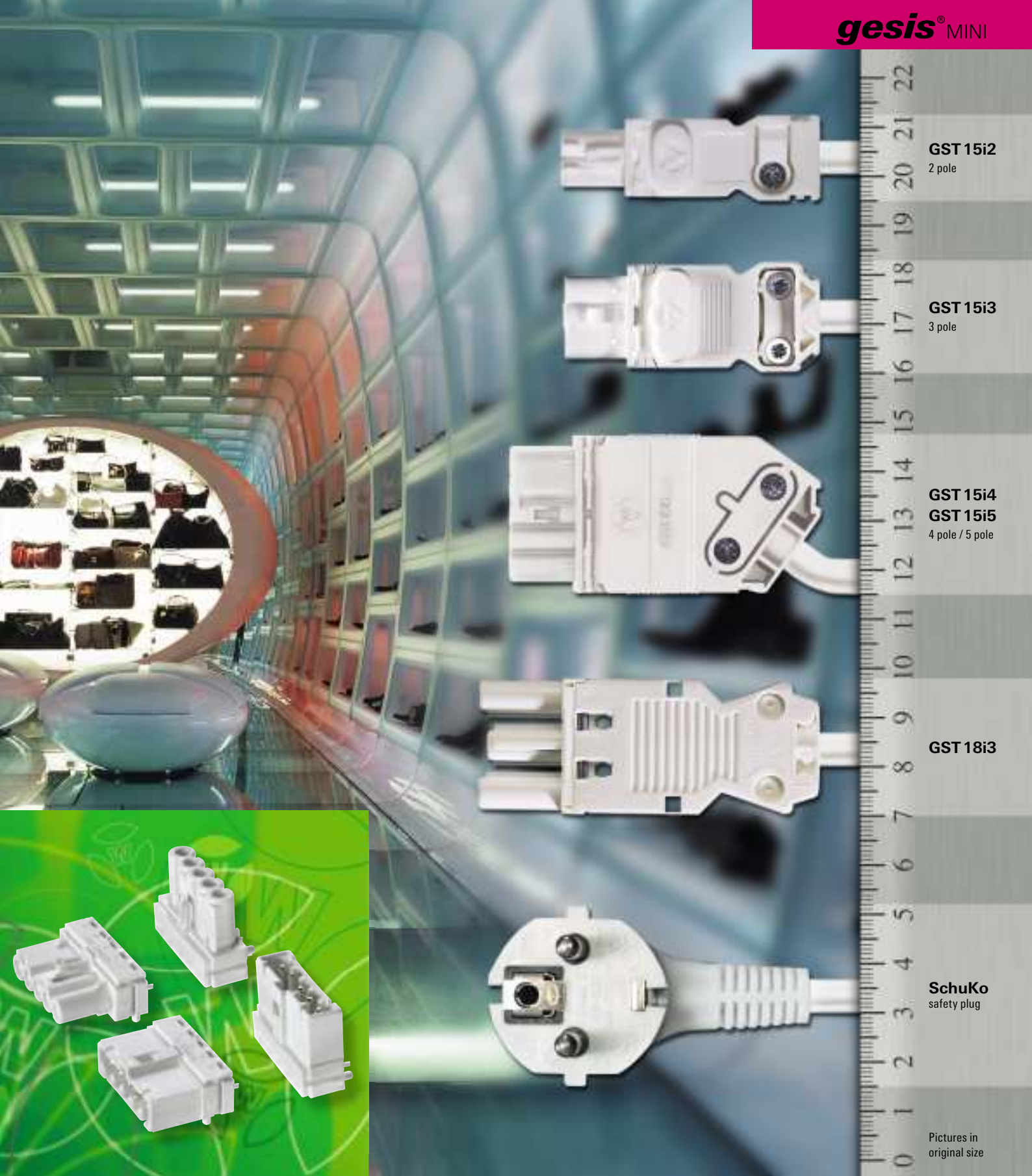


### Everything is consistent:

One system from the power supply to the consumer device: **gesis**<sup>®</sup> MINI integrates perfectly into the extensive **gesis**<sup>®</sup> system. This enables complex installation geometries. Pluggable, of course!

plug  
+  
play





**GST 15i2**  
2 pole

**GST 15i3**  
3 pole

**GST 15i4**  
**GST 15i5**  
4 pole / 5 pole

**GST 18i3**

**SchuKo**  
safety plug

Pictures in original size

**Low installation depth:**

A comparison of size shows that much less space is required for **gesis<sup>®</sup> MINI** compared to **gesis<sup>®</sup> CON**. This advantage pays off especially for installation of fluorescent lamps.

**Small is powerful:**

No matter whether 2, 3, 4 or 5 poles. With its small dimensions **gesis<sup>®</sup> MINI** is excellently suitable for electrification of luminaires and devices which have only a little space.



## Mini in detail

**gesis**<sup>®</sup> MINI is a pluggable electrical installation system that has been designed especially for confined room conditions. Perfect 2, 3, 4 or 5 pole installations can be implemented with a small number of components, for example in store design, exhibition or facade construction – quickly and flexibly. An adapter combines **gesis**<sup>®</sup> MINI with **gesis**<sup>®</sup> CON.

This opens the door to an installation system with more than 5000 components and almost unlimited opportunities.

**1 2 3 4 5 6 7 8**

### Connectors

The **gesis**<sup>®</sup> MINI components are locked by simply latching the mechanically coded parts.

### **gesis**<sup>®</sup> MINI – the system:

**gesis**<sup>®</sup> MINI is available in the following designs:

2 pole	250V	16A	250V	6A
	50V	16A		
3 pole	250V	16A	250/400V	16A
4 pole	250V	16A		
5 pole	250/400V	16A		
	250V	16A		
	50V	16A		

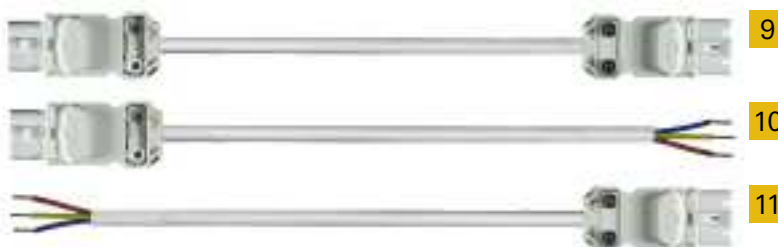
The wire range is 0.5 – 1.5 mm<sup>2</sup>

**9 10 11**

### Cable assemblies

All **gesis**<sup>®</sup> MINI components are preassembled and simply have to be plugged together. In addition to time savings and cost reductions most of all it results in higher safety, flexibility and improved service.

The picture shows **gesis**<sup>®</sup> MINI 3 pole; also available in 2, 4 and 5 pole design



### Completely safe:

All connectors of **gesis**<sup>®</sup> MINI are mechanically coded meaning that only the matching male and female connectors can be plugged together in the correct pole configuration while the locking device latches audibly.





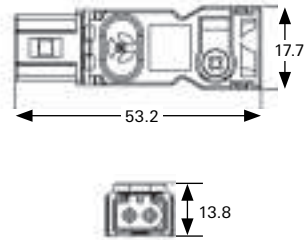
**GST15i2**  
2 pole



1



2



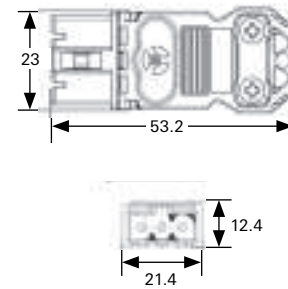
**GST15i3**  
3 pole



3



4



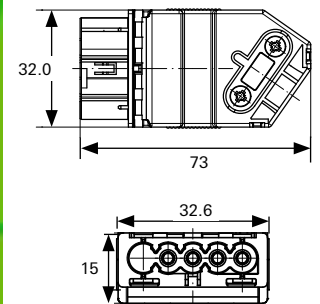
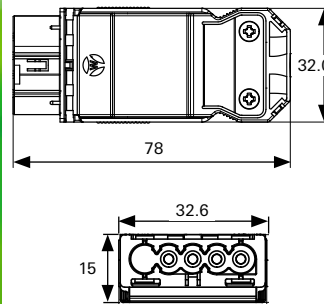
**GST15i4**  
4 pole



5



6



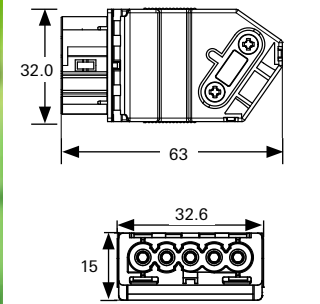
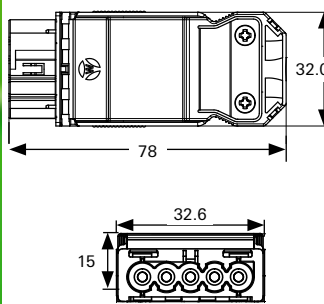
**GST15i5**  
5 pole



7



8



**Following the rules:**

Compliant with standard IEC 61535, **gesis<sup>®</sup> MINI** fulfils all requirements that are necessary for a safe electrotechnical operation.

**Future inside:**

Just like the **gesis<sup>®</sup>** system, **gesis<sup>®</sup> MINI** also develops dynamically. This means that the system grows continuously and adapts to the requirements of the market and manufacturers.



With a relatively small number of components, **gesis**<sup>®</sup> MINI is suitable for establishing efficient electrotechnical topologies. By using device connectors, luminaires or other devices are made pluggable. A special U-piece enables consistent chaining of the pluggable lamps.

**Device connection** 1 2 3 4

Via snap-in consisting of a frame and an insulating part, the connections for a pluggable connector can be placed, for example, inside luminaire housings quickly and safely.

**Feed-through wiring** 5

Use of a pluggable U-piece enables the connection of luminaires without a great effort. The benefits are clear: if one out of several lamps connected in series fails, dismantling the defective lamp will suffice. For this purpose the U-piece is detached and simply replaced when finished.

**Distribution units** 6

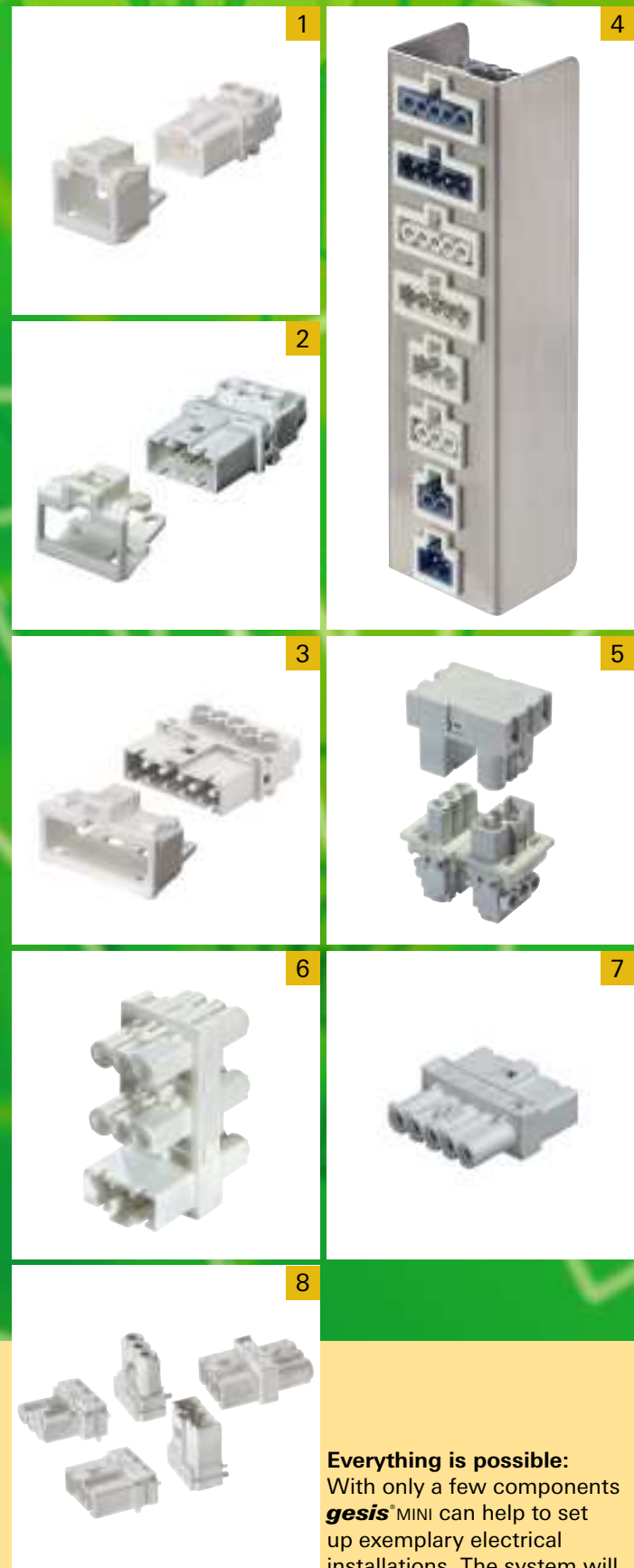
The 3 pole distribution units enable individual and space-saving utilization and routing during assembly.

**Intermediate coupling** 7

The intermediate coupling facility is used for direct routing, for example from luminaire to luminaire.

**Solder parts** 8

Solder parts are soldered directly onto PC boards making them pluggable.



**Everything is possible:**  
With only a few components **gesis**<sup>®</sup> MINI can help to set up exemplary electrical installations. The system will keep on growing in order to meet new requirements.





## Frequently asked questions

### ? For which applications is **gesis<sup>®</sup> MINI** suitable?

The following applications apply, among others:

- Luminaires for store design, displays, shelves
- Socket connections for office furniture
- Pluggable electrical connection for example in building automation
- Installation system for cable ducts and baseboards
- Installation in profiles for exhibition construction and store construction
- Installation in prefabricated walls, mobile homes

### ? What speaks in favor of using **gesis<sup>®</sup> MINI**?

End devices, electronic ballast, lamps and the installation space become smaller. **gesis<sup>®</sup> MINI** responds to this development with compact dimensions. Several connectors can be integrated in one unit. An advantage that can be seen, among others, in luminaires and sockets.

### ? What are the benefits of **gesis<sup>®</sup> MINI**?

In short: the compact design plus safety plus high functionality. Safety is revealed by the fact that **gesis<sup>®</sup> MINI** is VDE approved and also by the special locking mechanism of the connectors, the high technical functionality in the design for 16A despite the compact dimensions.

### ? Is **gesis<sup>®</sup> MINI** to be understood as a replacement for **gesis<sup>®</sup> CON (GST 18i)**?

Not at all. **gesis<sup>®</sup> MINI** does not replace the much more comprehensive **gesis<sup>®</sup> CON** system. Instead, **gesis<sup>®</sup> MINI** is intended as a supplement for applications that exclude the use of **gesis<sup>®</sup> CON** components.

### ? What is the difference compared with **gesis<sup>®</sup> CON**?

The difference lies mainly in the small construction size. The use of a screw connection further helps to reduce the dimensions.

### ? Will there be additional system components?

The system will grow. The next components are already being developed.

### ? How does the coding concept work?

- **Coding 1:**  
black and white for general main power supply applications
- **Coding 2:**  
pastel blue for dimming applications
- **Coding 3:**  
light blue for low-voltage applications
- **Coding 4:**  
brown for grounded switching functions

### ? What are the benefits of the 2-piece device connection?

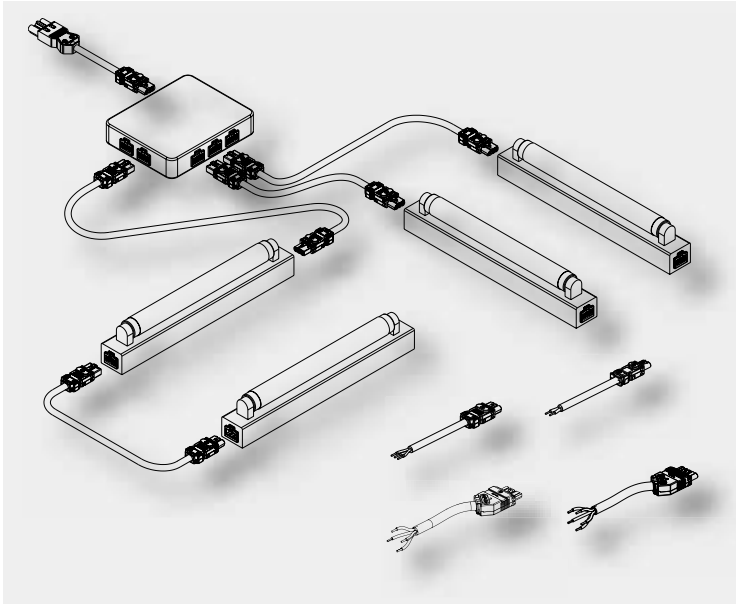
Everything can be simply plugged together. The frame is pre-assembled outside the device. The pre-assembled male or female part is simply latched inside the luminaire. Alternatively the lamp manufacturer can directly integrate the frame function into the end piece of the luminaire.





# Compact connectors 2, 3, 4 and 5 pole

## Application example



## General

Electronic components become increasingly smaller. Consumer devices become smaller and the electrical connection must therefore become smaller, too.

For installations in exhibition systems, on the shelf or in façades every inch counts.

The smaller, the better is the motto here. With its extremely compact dimensions, **gesis** MINI proves to fit perfectly while providing full performance. Its implementation guarantees 250 V and 16 A.


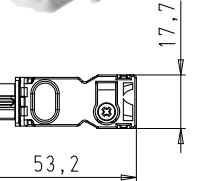

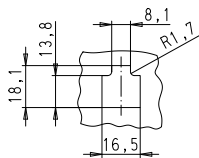
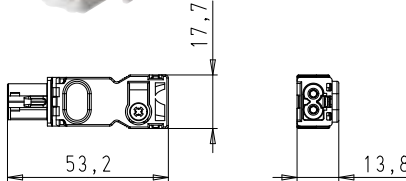
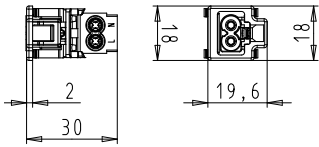
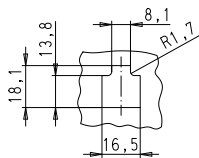




**gesis** MINI provides all the benefits of the classical **gesis** system and integrates itself perfectly.


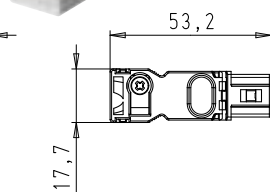

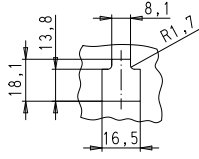
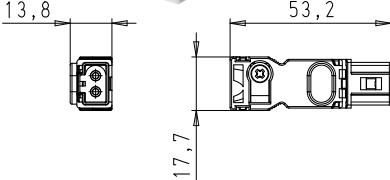
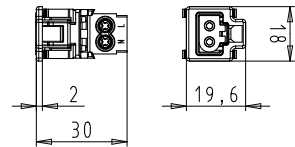
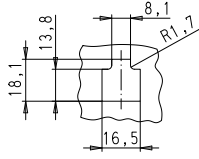




## Coding

					GST 15i2				GST 15i3			GST 15i4		GST 15i5					
					Application	Power	Dimming	50V	Power with ⊕	Switching without ⊕	Power with ⊕	Power with ⊕	Power + Dimming	50V					
					Mechanical coding														
					Code 1	Code 2	Code 3	Code 1	Code 4	Code 1	Code 1	Code 1	Code 2	Code 3					
Name	Description	Connection technology	Strain relief housing	Termination points per pole	white	black	pastel blue	light blue	white	black	brown	white	black	white	black	pastel blue	light blue		
<b>Connector</b>	Low profile	Screw	yes	1															
<b>Snap in</b>	for material thickness: 0.5–1.5 mm	Screw	no	1															
<b>Solder parts</b>	vertical and horizontal	Solder pins	no																
<b>Distribution units</b>	U-piece																		
	L-Distribution units																		
	h-Distribution units																		
	HH-Distribution units																		
	Intermediate coupling																		
<b>Cable assemblies</b>	Device connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled															
	Connection cable Female – Free end																		
	Extension cable Male – Female																		
	Adapter cable GST 18i3 – Female																		
	Female – Angled connector																		

Please see the first pages of the Technical Data section for a table of the approximated relation between the conductor cross sections and the AWG sizes.

## Connectors, device connectors 50V/16A, 250V/16A/6A

Female connector			Connector	Device connector				
								
								
Application	Coding	Color	Part No.	Part No.				
Sheet metal cut-out for device connector:			<b>with strain relief</b>				<b>Material thickness: 0.5 – 1.5 mm<sup>1)</sup></b>	
			Cable	mm <sup>2</sup>		Cable	mm <sup>2</sup>	
			Connection solid/fine-stranded	0.5–1.5		fine-stranded	0.5–2.5	without ferrule
			Connection solid/fine-stranded	0.5–1.5		solid-stranded	0.5–2.5	without ferrule
Cable diameters	6.0 – 7.7	H05VV-F, NYM	Termin. pole	1				
Sheath strip length	21.0mm		Insul. strip length	8.0mm				
Insul. strip length	8.0mm		Installation	snap-in	Housing cut out <sup>1)</sup>			
Connection	Screw connection		Connection	Screw connection				
Power 250V / 16A	Code 1		white	91.921.3053.0	91.921.9053.0			
			black	91.921.3053.1	91.921.9053.1			
Dimming 250V / 6A	Code 2		pastel blue	91.921.3453.0	91.921.9453.0			
Low voltage 50V / 16A	Code 3		light blue	91.921.3353.0	91.921.9353.0			
			Type	GST15i2S B1 ZR1	GST15i2S B1			

Male connector			Connector	Device connector				
								
								
Application	Coding	Color	Part No.	Part No.				
Sheet metal cut-out for device connector:			<b>with strain relief</b>				<b>Material thickness: 0.5 – 1.5 mm<sup>1)</sup></b>	
			Cable	mm <sup>2</sup>		Cable	mm <sup>2</sup>	
			Connection solid/fine-stranded	0.5–1.5		fine-stranded	0.5–2.5	without ferrule
			Connection solid/fine-stranded	0.5–1.5		solid-stranded	0.5–2.5	without ferrule
Cable diameters	6.0 – 7.7	H05VV-F, NYM	Termin. pole	1				
Sheath strip length	21.0mm		Insul. strip length	8.0mm				
Insul. strip length	8.0mm		Installation	snap-in	Housing cut out <sup>1)</sup>			
Connection	Screw connection		Connection	Screw connection				
Power 250V / 16A	Code 1		white	91.922.3053.0	91.922.9053.0			
			black	91.922.3053.1	91.922.9053.1			
Dimming 250V / 6A	Code 2		pastel blue	91.922.3453.0	91.922.9453.0			
Low voltage 50V / 16A	Code 3		light blue	91.922.3353.0	91.922.9353.0			
			Type	GST15i2S S1 ZR1	GST15i2S S1 R			


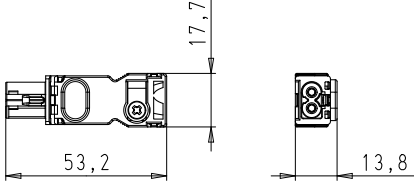
<sup>1)</sup> Housing material, paint and deburring may influence the tight fit inside the housing.  
Detailed installation instructions available on request.






## Connector 250V/16A/6A

**Female connector**


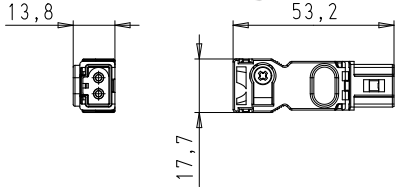
**Connector**







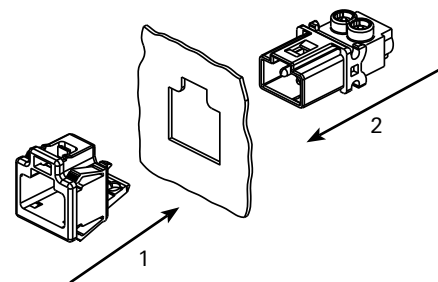
Application	Coding	Color	Part No.
<b>Strain relief for H03V2V2 3 G 0.75</b>			
Cable	mm <sup>2</sup>		
fine-stranded			
solid-stranded			
Termin. pole			
Insul. strip length			
Installation			
Connection			
Power 250 V / 16 A	Code 1 	white	91.921.2053.0
		black	91.921.2053.1
Dimming 250 V / 6 A	Code 2 	pastel blue	91.921.2453.0
Low voltage 50 V / 16 A	Code 3 	light blue	91.921.2353.0
	Type		GST15i2

**Male connector**




**Connector**







Application	Coding	Color	Part No.
<b>Strain relief for H03V2V2 3 G 0.75</b>			
Cable	mm <sup>2</sup>		
fine-stranded			
solid-stranded			
Termin. pole			
Insul. strip length			
Installation			
Connection			
Power 250 V / 16 A	Code 1 	white	91.922.2053.0
		black	91.922.2053.1
Dimming 250 V / 6 A	Code 2 	pastel blue	91.922.2453.0
Low voltage 50 V / 16 A	Code 3 	light blue	91.922.2353.0
	Type		GST15i2



## Solder parts 50V/16A, 250V/16A/6A

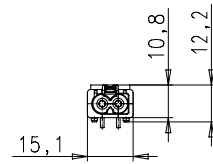
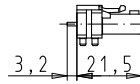
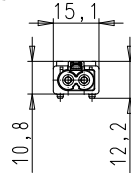
Female connector				Solder connector, vertical with screw flange		Solder connector, horizontal with screw flange	
Application				Part No.		Part No.	
Coding				Installation pos. vertical		Installation pos. horizontal	
Color				Solder pins 3.2 mm		Solder pins 3.2 mm	
See Technical Data for the solder stencil				Fixation Screw flange		Fixation Screw flange with studs	
Power 250V / 16A	Code 1		white	91.021.0153.0	91.023.0153.0		
			black	91.021.0153.1	91.023.0153.1		
Dimming 250V / 6A	Code 2		pastel blue	91.021.0353.0	91.023.0353.0		
Low voltage 50V / 16A	Code 3		light blue	91.021.0553.0	91.023.0553.0		
Type				GST15i2 LB1 VB		GST15i2 LB1 HB	

Male connector				Solder connector, vertical with screw flange		Solder connector, horizontal with screw flange	
Application				Part No.		Part No.	
Coding				Installation pos. vertical		Installation pos. horizontal	
Color				Solder pins 3.2 mm		Solder pins 3.2 mm	
See Technical Data for the solder stencil				Fixation Screw flange		Fixation Screw flange with studs	
Power 250V / 16A	Code 1		white	91.022.0153.0	91.024.0153.0		
			black	91.022.0153.1	91.024.0153.1		
Dimming 250V / 6A	Code 2		pastel blue	91.022.0353.0	91.024.0353.0		
Low voltage 50V / 16A	Code 3		light blue	91.022.0553.0	91.024.0553.0		
Type				GST15i2 LS1 VB		GST15i2 LS1 HB	

## Female connector

## Solder connector, vertical

## Solder connector, horizontal

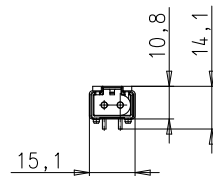
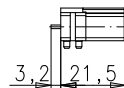
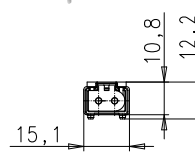


Application	Coding	Color	Part No.	Part No.												
See Technical Data for the solder stencil			<table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>none</td></tr> </table>	Installation pos.	vertical	Solder pins	3.2 mm	Fixation	none	<table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Studs</td></tr> </table>	Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Studs
Installation pos.	vertical															
Solder pins	3.2 mm															
Fixation	none															
Installation pos.	horizontal															
Solder pins	3.2 mm															
Fixation	Studs															
Power 250V / 16A	Code 1	<table border="1"> <tr><td>N L</td></tr> <tr><td></td></tr> </table>	N L		white	91.021.0053.0	91.023.0053.0									
N L																
			black	91.021.0053.1	91.023.0053.1											
Dimming 250V / 6A	Code 2	<table border="1"> <tr><td>D2 D1</td></tr> <tr><td></td></tr> </table>	D2 D1		pastel blue	91.021.0253.0	91.023.0253.0									
D2 D1																
Low voltage 50V / 16A	Code 3	<table border="1"> <tr><td>2 1</td></tr> <tr><td></td></tr> </table>	2 1		light blue	91.021.0453.0	91.023.0453.0									
2 1																
Type			GST15i2 LB1 V	GST15i2 LB1 H												

## Male connector

## Solder connector, vertical

## Solder connector, horizontal



Application	Coding	Color	Part No.	Part No.												
See Technical Data for the solder stencil			<table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>none</td></tr> </table>	Installation pos.	vertical	Solder pins	3.2 mm	Fixation	none	<table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Studs</td></tr> </table>	Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Studs
Installation pos.	vertical															
Solder pins	3.2 mm															
Fixation	none															
Installation pos.	horizontal															
Solder pins	3.2 mm															
Fixation	Studs															
Power 250V / 16A	Code 1	<table border="1"> <tr><td>L N</td></tr> <tr><td></td></tr> </table>	L N		white	91.022.0053.0	91.024.0053.0									
L N																
			black	91.022.0053.1	91.024.0053.1											
Dimming 250V / 6A	Code 2	<table border="1"> <tr><td>D1 D2</td></tr> <tr><td></td></tr> </table>	D1 D2		pastel blue	91.022.0253.0	91.024.0253.0									
D1 D2																
Low voltage 50V / 16A	Code 3	<table border="1"> <tr><td>1 2</td></tr> <tr><td></td></tr> </table>	1 2		light blue	91.022.0453.0	91.024.0453.0									
1 2																
Type			GST15i2 LS1 V	GST15i2 LS1 H												



## Cable assemblies 2 pole 250V/16A/6A

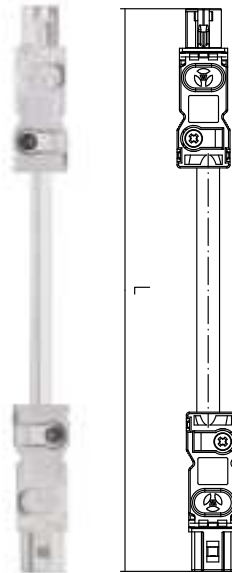
### H05VV-F

**Insulation:  
containing halogen  
(PVC)**



Power: N = BU  
L = BN

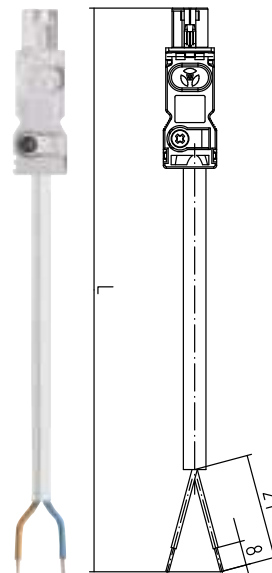
Dimming: D2 = BU  
D1 = BN



#### Extension cable

2 x 1.5 mm<sup>2</sup>

Female – Male

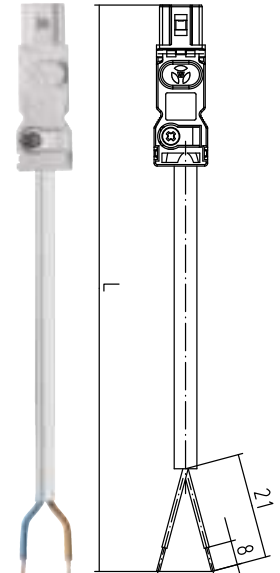


#### Connection cable

2 x 1.5 mm<sup>2</sup>

Female – Free end

Wire ends<sup>1)</sup> ultrason. welded



#### Connection cable

2 x 1.5 mm<sup>2</sup>

Male – Free end

Wire ends<sup>1)</sup> ultrason. welded

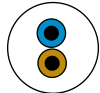
Application	Coding	Color	Length <sup>2)</sup>	Part No.	Part No.	Part No.
Power 250V / 16A	Code 1 Buchse Stecker	black Cable black	1,0 m	91.222.1000.1	91.222.1003.1	91.222.1004.1
			2,0 m	91.222.2000.1	91.222.2003.1	91.222.2004.1
			3,0 m	91.222.3000.1	91.222.3003.1	91.222.3004.1
			4,0 m	91.222.4000.1	91.222.4003.1	91.222.4004.1
			5,0 m	91.222.5000.1	91.222.5003.1	91.222.5004.1
			6,0 m	91.222.6000.1	91.222.6003.1	91.222.6004.1
			7,0 m	91.222.7000.1	91.222.7003.1	91.222.7004.1
			8,0 m	91.222.8000.1	91.222.8003.1	91.222.8004.1
	white Cable white	1,0 m	91.222.1000.2	91.222.1003.2	91.222.1004.2	
		2,0 m	91.222.2000.2	91.222.2003.2	91.222.2004.2	
		3,0 m	91.222.3000.2	91.222.3003.2	91.222.3004.2	
		4,0 m	91.222.4000.2	91.222.4003.2	91.222.4004.2	
		5,0 m	91.222.5000.2	91.222.5003.2	91.222.5004.2	
		6,0 m	91.222.6000.2	91.222.6003.2	91.222.6004.2	
		7,0 m	91.222.7000.2	91.222.7003.2	91.222.7004.2	
		8,0 m	91.222.8000.2	91.222.8003.2	91.222.8004.2	
Dimming 250V / 6A	Code 2 Buchse Stecker	pastel blue white Cable white	1,0 m	91.222.1000.9	91.222.1003.9	91.222.1004.9
			2,0 m	91.222.2000.9	91.222.2003.9	91.222.2004.9
			3,0 m	91.222.3000.9	91.222.3003.9	91.222.3004.9
			4,0 m	91.222.4000.9	91.222.4003.9	91.222.4004.9
			5,0 m	91.222.5000.9	91.222.5003.9	91.222.5004.9
			6,0 m	91.222.6000.9	91.222.6003.9	91.222.6004.9
			7,0 m	91.222.7000.9	91.222.7003.9	91.222.7004.9
			8,0 m	91.222.8000.9	91.222.8003.9	91.222.8004.9
Low voltage 50 V / 16 A	Code 3 Buchse Stecker	light blue white Cable white	1,0 m	on request	on request	on request
			2,0 m			
			3,0 m			
			4,0 m			
			5,0 m			
			6,0 m			
			7,0 m			
			8,0 m			

<sup>1)</sup> Other sheath and insulation strip lengths available on request

<sup>2)</sup> Other lengths available on request

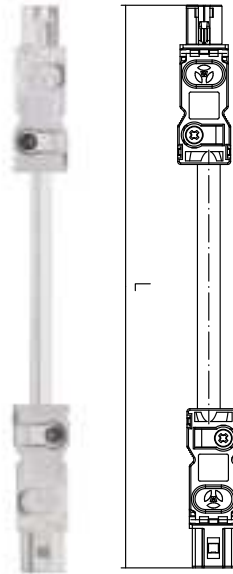
## S05Z1Z1-F

**Insulation:  
halogen-free**



Power: N = BU  
L = BN

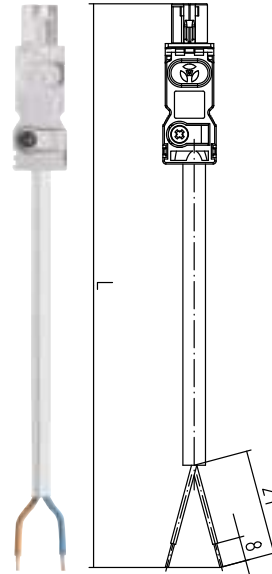
Dimming: D2 = BU  
D1 = BN



### Extension cable

2 x 1.5 mm<sup>2</sup>

Female – Male

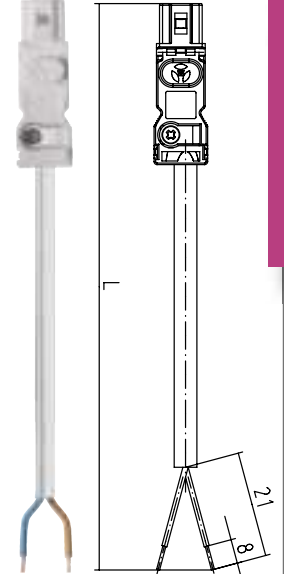


### Connection cable

2 x 1.5 mm<sup>2</sup>

Female – Free end

Wire ends<sup>1)</sup> ultrason. welded



### Connection cable

2 x 1.5 mm<sup>2</sup>

Male – Free end



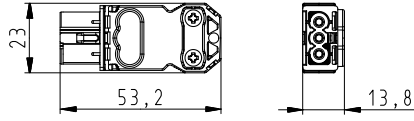
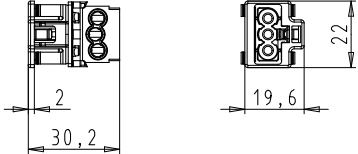
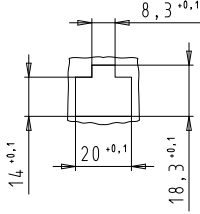



Wire ends<sup>1)</sup> ultrason. welded



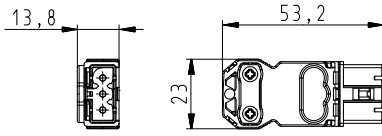
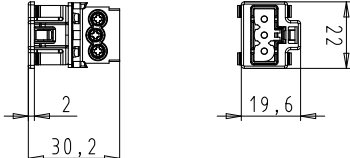
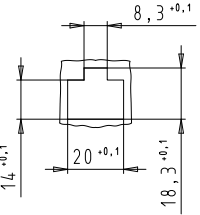



Application	Coding	Color	Length <sup>2)</sup>	Part No.	Part No.	Part No.
Power 250 V / 16 A	Code 1 N L Female L N Male	black Cable black	1.0 m	91.222.1060.1	91.222.1063.1	91.222.1064.1
			2.0 m	91.222.2060.1	91.222.2063.1	91.222.2064.1
			3.0 m	91.222.3060.1	91.222.3063.1	91.222.3064.1
			4.0 m	91.222.4060.1	91.222.4063.1	91.222.4064.1
			5.0 m	91.222.5060.1	91.222.5063.1	91.222.5064.1
			6.0 m	91.222.6060.1	91.222.6063.1	91.222.6064.1
			7.0 m	91.222.7060.1	91.222.7063.1	91.222.7064.1
			8.0 m	91.222.8060.1	91.222.8063.1	91.222.8064.1
	white Cable white	1.0 m	91.222.1060.2	91.222.1063.2	91.222.1064.2	
		2.0 m	91.222.2060.2	91.222.2063.2	91.222.2064.2	
		3.0 m	91.222.3060.2	91.222.3063.2	91.222.3064.2	
		4.0 m	91.222.4060.2	91.222.4063.2	91.222.4064.2	
		5.0 m	91.222.5060.2	91.222.5063.2	91.222.5064.2	
		6.0 m	91.222.6060.2	91.222.6063.2	91.222.6064.2	
		7.0 m	91.222.7060.2	91.222.7063.2	91.222.7064.2	
		8.0 m	91.222.8060.2	91.222.8063.2	91.222.8064.2	
Dimming 250 V / 6 A	Code 2 D2 D1 Female D1 D2 Male	pastel blue white Cable white	1.0 m	91.222.1060.9	91.222.1063.9	91.222.1064.9
			2.0 m	91.222.2060.9	91.222.2063.9	91.222.2064.9
			3.0 m	91.222.3060.9	91.222.3063.9	91.222.3064.9
			4.0 m	91.222.4060.9	91.222.4063.9	91.222.4064.9
			5.0 m	91.222.5060.9	91.222.5063.9	91.222.5064.9
			6.0 m	91.222.6060.9	91.222.6063.9	91.222.6064.9
			7.0 m	91.222.7060.9	91.222.7063.9	91.222.7064.9
			8.0 m	91.222.8060.9	91.222.8063.9	91.222.8064.9
Low voltage 50 V / 16 A	Code 3 2 1 Female 1 2 Male	light blue white Cable white	1.0 m	on request	on request	on request
			2.0 m			
			3.0 m			
			4.0 m			
			5.0 m			
			6.0 m			
			7.0 m			
			8.0 m			

<sup>1)</sup> Other sheath and insulation strip lengths available on request

<sup>2)</sup> Other lengths available on request

## Connectors, device connectors 250V/16A

Female connector			Connector	Device connector																																										
																																														
																																														
Application	Coding	Color	Part No.	Part No.																																										
Sheet metal cut-out for device connector:			<b>with strain relief</b> <table border="1"> <tr><td>Cable</td><td>mm<sup>2</sup></td><td></td></tr> <tr><td>Connection solid/fine-stranded</td><td>0.5–1.5</td><td></td></tr> <tr><td>Cable diameters</td><td>5.5–8.5</td><td>H05VV-F, NYM</td></tr> <tr><td>Ground wire strip length</td><td>25.0 mm</td><td></td></tr> <tr><td>Sheath strip length</td><td>21.0 mm</td><td></td></tr> <tr><td>Insul. strip length</td><td>8.0 mm</td><td></td></tr> <tr><td>Connection</td><td colspan="2">Screw connection</td></tr> </table>	Cable	mm <sup>2</sup>		Connection solid/fine-stranded	0.5–1.5		Cable diameters	5.5–8.5	H05VV-F, NYM	Ground wire strip length	25.0 mm		Sheath strip length	21.0 mm		Insul. strip length	8.0 mm		Connection	Screw connection		<b>Material thickness: 0.5–1.5 mm<sup>1)</sup></b> <table border="1"> <tr><td>Cable</td><td>mm<sup>2</sup></td><td></td></tr> <tr><td>fine-stranded</td><td>0.5–2.5</td><td></td></tr> <tr><td>solid-stranded</td><td>0.5–2.5</td><td></td></tr> <tr><td>Termin. pole</td><td>1</td><td></td></tr> <tr><td>Insul. strip length</td><td>8.0 mm</td><td></td></tr> <tr><td>Installation</td><td>snap-in</td><td>Cut out<sup>1)</sup></td></tr> <tr><td>Connection</td><td colspan="2">Screw connection</td></tr> </table>	Cable	mm <sup>2</sup>		fine-stranded	0.5–2.5		solid-stranded	0.5–2.5		Termin. pole	1		Insul. strip length	8.0 mm		Installation	snap-in	Cut out <sup>1)</sup>	Connection	Screw connection	
Cable	mm <sup>2</sup>																																													
Connection solid/fine-stranded	0.5–1.5																																													
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Installation	snap-in	Cut out <sup>1)</sup>																																												
Connection	Screw connection																																													
Power with ⊕	Code 1		white	91.931.3053.0																																										
			black	91.931.3053.1																																										
Switching functions, without ⊕	Code 4		brown	91.931.3853.0																																										
			Type	GST15i3S B1 ZR1																																										
				91.931.9053.0																																										
				91.931.9053.1																																										
				91.931.9853.0																																										
				GST15i3S B1 R																																										

Male connector			Connector	Device connector																																										
																																														
																																														
Application	Coding	Color	Part No.	Part No.																																										
Sheet metal cut-out for device connector:			<b>with strain relief</b> <table border="1"> <tr><td>Cable</td><td>mm<sup>2</sup></td><td></td></tr> <tr><td>Connection solid/fine-stranded</td><td>0.5–1.5</td><td></td></tr> <tr><td>Cable diameters</td><td>5.5–8.5</td><td>H05VV-F, NYM</td></tr> <tr><td>Ground wire strip length</td><td>25.0 mm</td><td></td></tr> <tr><td>Sheath strip length</td><td>21.0 mm</td><td></td></tr> <tr><td>Insul. strip length</td><td>8.0 mm</td><td></td></tr> <tr><td>Connection</td><td colspan="2">Screw connection</td></tr> </table>	Cable	mm <sup>2</sup>		Connection solid/fine-stranded	0.5–1.5		Cable diameters	5.5–8.5	H05VV-F, NYM	Ground wire strip length	25.0 mm		Sheath strip length	21.0 mm		Insul. strip length	8.0 mm		Connection	Screw connection		<b>Material thickness: 0.5–1.5 mm<sup>1)</sup></b> <table border="1"> <tr><td>Cable</td><td>mm<sup>2</sup></td><td></td></tr> <tr><td>fine-stranded</td><td>0.5–2.5</td><td></td></tr> <tr><td>solid-stranded</td><td>0.5–2.5</td><td></td></tr> <tr><td>Termin. pole</td><td>1</td><td></td></tr> <tr><td>Insul. strip length</td><td>8.0 mm</td><td></td></tr> <tr><td>Installation</td><td>snap-in</td><td>Cut out<sup>1)</sup></td></tr> <tr><td>Connection</td><td colspan="2">Screw connection</td></tr> </table>	Cable	mm <sup>2</sup>		fine-stranded	0.5–2.5		solid-stranded	0.5–2.5		Termin. pole	1		Insul. strip length	8.0 mm		Installation	snap-in	Cut out <sup>1)</sup>	Connection	Screw connection	
Cable	mm <sup>2</sup>																																													
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				91.932.9053.0																																										
				91.932.9053.1																																										
				91.932.9853.0																																										
				GST15i3S S1 R																																										

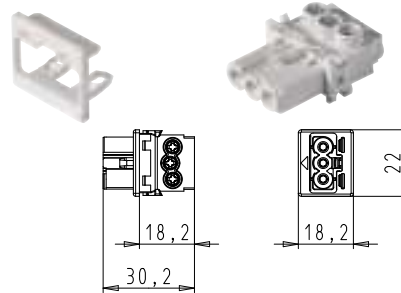
<sup>1)</sup> Housing material, paint and deburring may influence the tight fit inside the housing.  
Detailed installation instructions available on request.



## Female connector

The following device connectors 91.932.9053.0 and 91.932.9053.1 cannot be used for plugging.

## Device connector, protruding



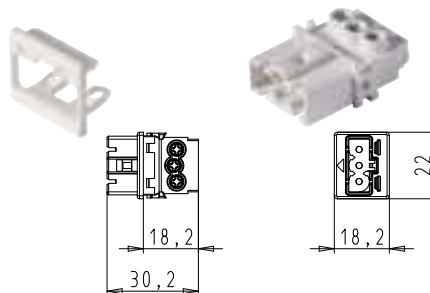
## Strain relief

Application	Coding	Color	Part No.
Sheet metal cut-out for device connector:			<b>Material thickness: 0.8 –1.0 mm<sup>1)</sup></b>
			Cable mm <sup>2</sup>
			fine-stranded 0.5–2.5 without ferrule
			Termin. pole 1
			Insul. strip length 8.0mm
			Installation snap-in Cut out <sup>1)</sup>
			Connection Screw connection
			<b>Strain relief for 3 x 2.5 mm<sup>2</sup></b>
			Cable mm <sup>2</sup>
			fine-stranded
			solid-stranded
			Termin. pole
			Insul. strip length
			Installation
			Connection
Power with ⊕	Code 1	 white black Type	91.931.9153.0 91.931.9153.1 GST15i3S B1 U
			91.931.4053.0 91.931.4053.1 GST15i3

## Male connector

The following device connectors 91.932.9053.0 and 91.932.9053.1 cannot be used for plugging.

## Device connector, protruding

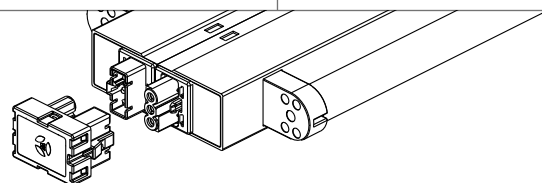


## Strain relief

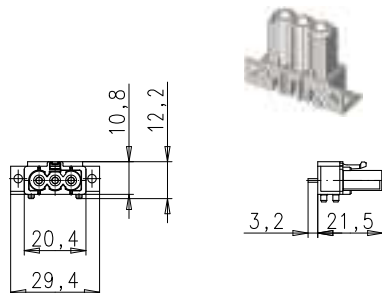
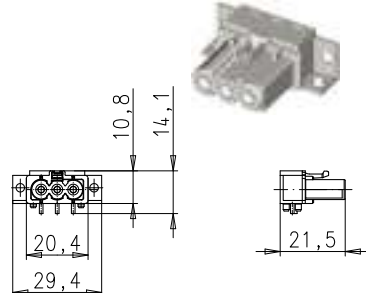


Application	Coding	Color	Part No.
Sheet metal cut-out for device connector:			<b>Material thickness: 0.8 –1.0 mm<sup>1)</sup></b>
			Cable mm <sup>2</sup>
			fine-stranded 0.5–2.5 without ferrule
			Termin. pole 1
			Insul. strip length 8.0mm
			Installation snap-in Cut out <sup>1)</sup>
			Connection Screw connection
			<b>Strain relief for 3 x 2.5 mm<sup>2</sup></b>
			Cable mm <sup>2</sup>
			fine-stranded
			solid-stranded
			Termin. pole
			Insul. strip length
			Installation
			Connection
Power with ⊕	Code 1	 white black Type	91.932.9153.0 91.932.9153.1 GST15i3S S1 U
			91.932.4053.0 91.932.4053.1 GST15i3

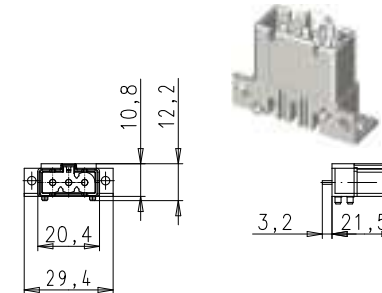
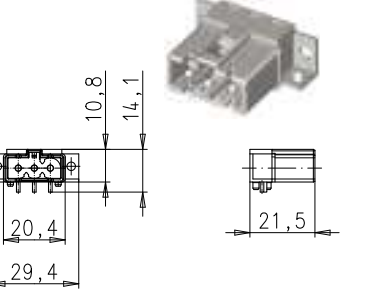


See page 27 for intermediate coupling U-piece.

For lamp chaining using the intermediate coupling U-piece.



## Solder parts 250V/16A

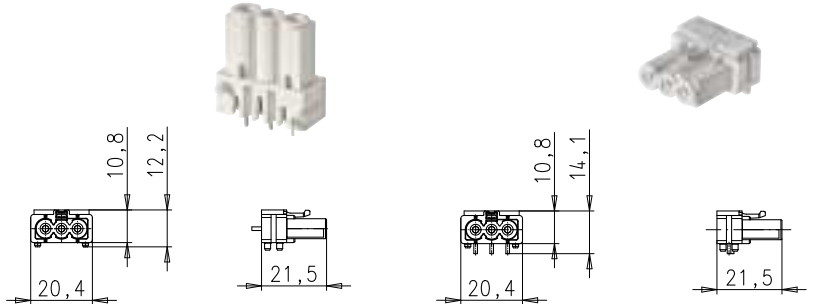
Female connector			Solder connector, vertical with screw flange		Solder connector, horizontal with screw flange													
See Technical Data for the solder stencil																		
Application	Coding	Color	Part No.		Part No.													
See Technical Data for the solder stencil			<table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Screw flange</td></tr> </table>		Installation pos.	vertical	Solder pins	3.2 mm	Fixation	Screw flange	<table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Screw flange with studs</td></tr> </table>		Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Screw flange with studs
Installation pos.	vertical																	
Solder pins	3.2 mm																	
Fixation	Screw flange																	
Installation pos.	horizontal																	
Solder pins	3.2 mm																	
Fixation	Screw flange with studs																	
Power 250 V / 16 A	Code 1	N ⊕ L 	white	91.031.0153.0	91.033.0153.0													
			black	91.031.0153.1	91.033.0153.1													
Switching without ⊕	Code 4	3 2 1 	brown	91.031.0753.0	91.033.0753.0													
			Type	GST15i3 LB1 VB	GST15i3 LB1 HB													

Male connector			Solder connector, vertical with screw flange		Solder connector, horizontal with screw flange													
See Technical Data for the solder stencil																		
Application	Coding	Color	Part No.		Part No.													
See Technical Data for the solder stencil			<table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Screw flange</td></tr> </table>		Installation pos.	vertical	Solder pins	3.2 mm	Fixation	Screw flange	<table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Screw flange with studs</td></tr> </table>		Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Screw flange with studs
Installation pos.	vertical																	
Solder pins	3.2 mm																	
Fixation	Screw flange																	
Installation pos.	horizontal																	
Solder pins	3.2 mm																	
Fixation	Screw flange with studs																	
Power 250 V / 16 A	Code 1	L ⊕ N 	white	91.032.0153.0	91.034.0153.0													
			black	91.032.0153.1	91.034.0153.1													
Switching without ⊕	Code 4	1 2 3 	brown	91.032.0753.0	91.034.0753.0													
			Type	GST15i3 LS1 VB	GST15i3 LS1 HB													

## Female connector

## Solder connector, vertical

## Solder connector, horizontal

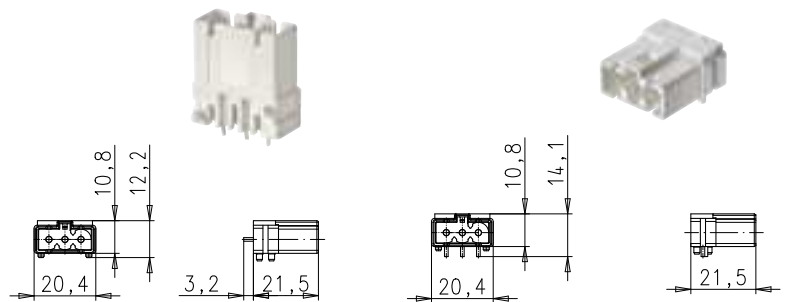


Application	Coding	Color	Part No.	Part No.												
See Technical Data for the solder stencil			<table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>none</td></tr> </table>	Installation pos.	vertical	Solder pins	3.2 mm	Fixation	none	<table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Studs</td></tr> </table>	Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Studs
Installation pos.	vertical															
Solder pins	3.2 mm															
Fixation	none															
Installation pos.	horizontal															
Solder pins	3.2 mm															
Fixation	Studs															
Power 250 V / 16 A	Code 1	N ⊕ L 	white black	91.031.0053.0 91.031.0053.1	91.033.0053.0 91.033.0053.1											
Switching without ⊕	Code 4	3 2 1 	brown	91.031.0653.0	91.033.0653.0											
			Type	GST15i3 LB1 V	GST15i3 LB1 H											

## Male connector

## Solder connector, vertical

## Solder connector, horizontal



Application	Coding	Color	Part No.	Part No.												
See Technical Data for the solder stencil			<table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>none</td></tr> </table>	Installation pos.	vertical	Solder pins	3.2 mm	Fixation	none	<table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Studs</td></tr> </table>	Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Studs
Installation pos.	vertical															
Solder pins	3.2 mm															
Fixation	none															
Installation pos.	horizontal															
Solder pins	3.2 mm															
Fixation	Studs															
Power 250 V / 16 A	Code 1	L ⊕ N 	white black	91.032.0053.0 91.032.0053.1	91.034.0053.0 91.034.0053.1											
Switching without ⊕	Code 4	1 2 3 	brown	91.032.0653.0	91.034.0653.0											
			Type	GST15i3 LS1 V	GST15i3 LS1 H											



## Distribution unit 250V/16A

Distribution units			Distribution units 1I/20	Distribution units 1I/30
Application	Coding	Color	Part No.	Part No.
			<b>lockable</b> <b>1 input</b> Male connector 3 pole <b>2 outputs</b> Female connector 3 pole	<b>lockable</b> <b>1 input</b> Male connector 3 pole <b>3 outputs</b> Female connector 3 pole
Power with ⊕	Code 1	N ⊕ L 	white 91.030.6053.0 black 91.030.6053.1 Type GST15i3 V 2P1 H	91.030.4953.0 91.030.4953.1 GST15i3 V 3P1 H

Distribution units			Distribution units 1I/50
Application	Coding	Color	Part No.
			<b>lockable</b> <b>1 input</b> Male connector 3 pole <b>5 outputs</b> Female connector 3 pole
Power with ⊕	Code 1	L ⊕ N 	white 91.030.5253.0 black 91.030.5253.1 Type GST15i3V 5P1 H

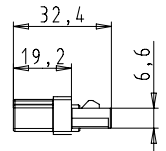
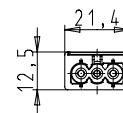
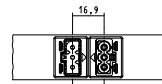
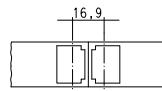
## Routing

### Intermediate coupling U-piece

### Intermediate coupling



Sheet metal cut-out

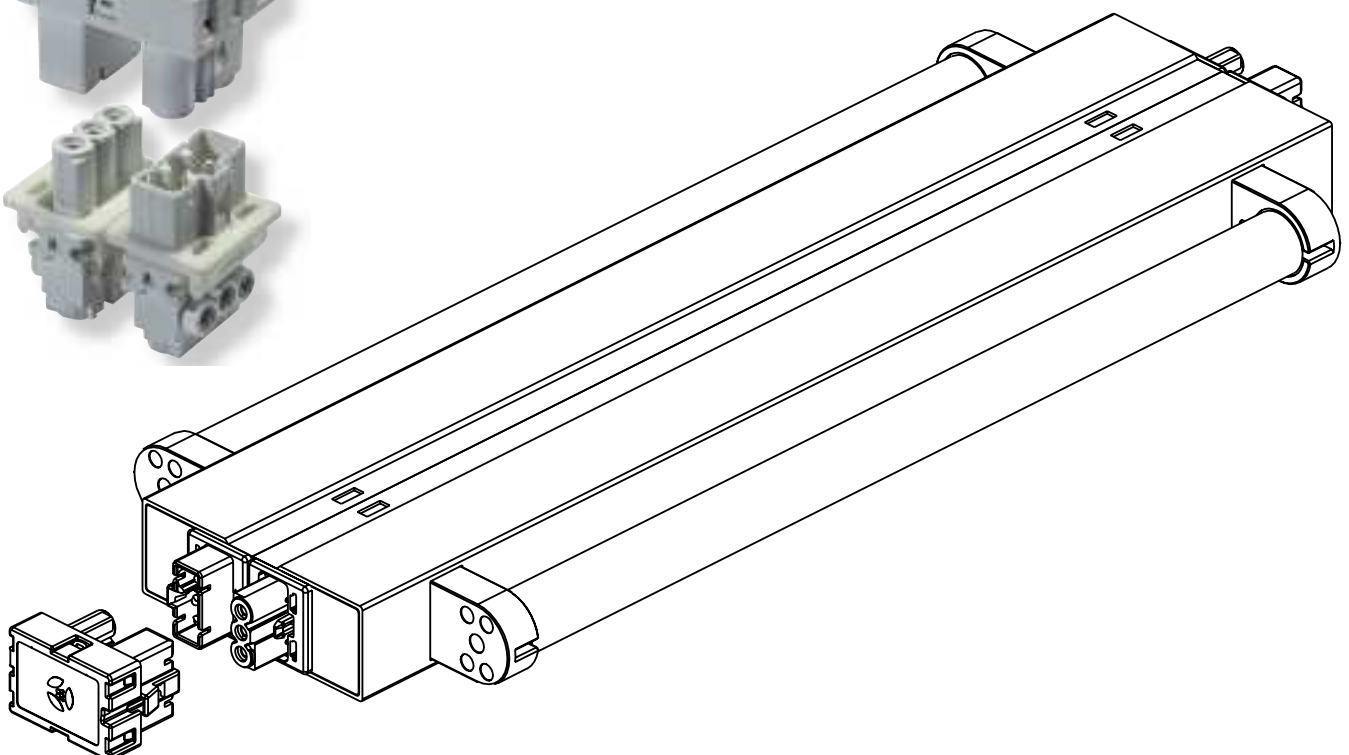


Color Part No.

white 91.030.5853.0  
black 91.030.5853.1  
Type GST15i3Z 1P1U

Part No.

91.030.5953.0  
91.030.5953.1  
GST15i3Z 1P1



## Cable assemblies 3 pole 250V/16A

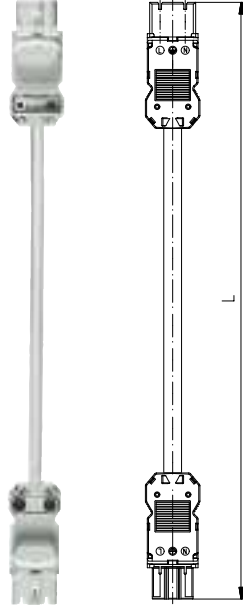
### H05VV-F

Insulation:  
containing halogen  
(PVC)



⊕ = GN/YE  
N = BU  
L = BN

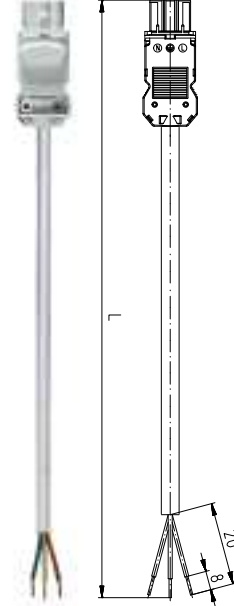
Standard cable type H05VV-F



#### Extension cable

3 G 1.5 mm<sup>2</sup>

Female – Male

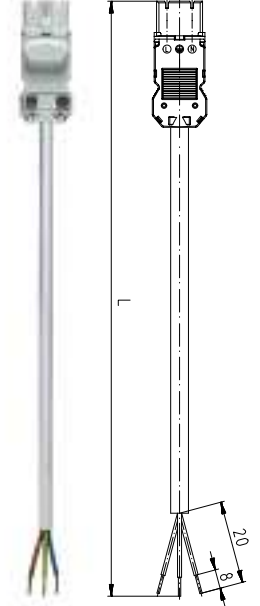


#### Connection cable

3 G 1.5 mm<sup>2</sup>

Female – Free end

Wire ends<sup>1)</sup> ultrason. welded



#### Connection cable

3 G 1.5 mm<sup>2</sup>

Male – Free end

Wire ends<sup>1)</sup> ultrason. welded

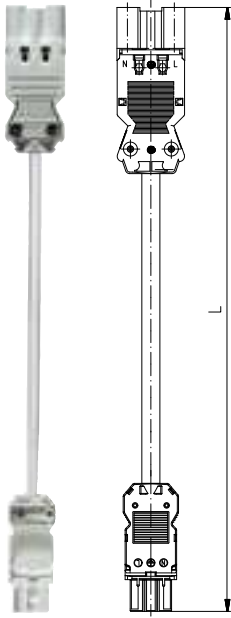
Application	Coding	Color	Length <sup>2)</sup>	Part No.	Part No.	Part No.
Power with ⊕	Code 1 Female	black	1.0 m	91.232.1000.1	91.232.1003.1	91.232.1004.1
			2.0 m	91.232.2000.1	91.232.2003.1	91.232.2004.1
			3.0 m	91.232.3000.1	91.232.3003.1	91.232.3004.1
			4.0 m	91.232.4000.1	91.232.4003.1	91.232.4004.1
		Cable black	5.0 m	91.232.5000.1	91.232.5003.1	91.232.5004.1
			6.0 m	91.232.6000.1	91.232.6003.1	91.232.6004.1
			7.0 m	91.232.7000.1	91.232.7003.1	91.232.7004.1
			8.0 m	91.232.8000.1	91.232.8003.1	91.232.8004.1
	Male	white	1.0 m	91.232.1000.2	91.232.1003.2	91.232.1004.2
			2.0 m	91.232.2000.2	91.232.2003.2	91.232.2004.2
			3.0 m	91.232.3000.2	91.232.3003.2	91.232.3004.2
			4.0 m	91.232.4000.2	91.232.4003.2	91.232.4004.2
		Cable white	5.0 m	91.232.5000.2	91.232.5003.2	91.232.5004.2
			6.0 m	91.232.6000.2	91.232.6003.2	91.232.6004.2
			7.0 m	91.232.7000.2	91.232.7003.2	91.232.7004.2
			8.0 m	91.232.8000.2	91.232.8003.2	91.232.8004.2

<sup>1)</sup> Other sheath and insulation strip lengths available on request

<sup>2)</sup> Other lengths available on request



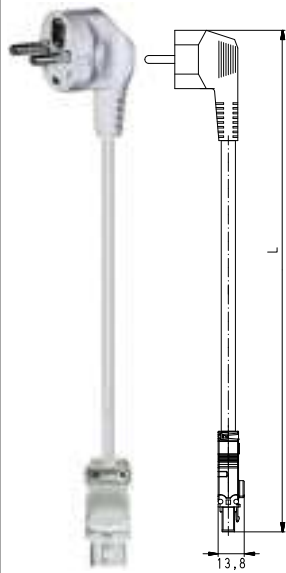
Standard cable type H05VV-F



Cable assemblies	
3 G 1.5 mm <sup>2</sup>	
Female – Male	
GST 18i3 Male	
GST 15i3 Female	

Length <sup>2)</sup>	Part No.
1.0 m	91.232.1009.1
2.0 m	91.232.2009.1
3.0 m	91.232.3009.1
4.0 m	91.232.4009.1
5.0 m	91.232.5009.1
6.0 m	91.232.6009.1
7.0 m	91.232.7009.1
8.0 m	91.232.8009.1
1.0 m	91.232.1009.2
2.0 m	91.232.2009.2
3.0 m	91.232.3009.2
4.0 m	91.232.4009.2
5.0 m	91.232.5009.2
6.0 m	91.232.6009.2
7.0 m	91.232.7009.2
8.0 m	91.232.8009.2

Standard cable type H05VV-F



Male with GST18 Female		Male with SCHUKO	
3 G 1.5 mm <sup>2</sup>		3 G 1.5 mm <sup>2</sup>	
Male – Female		Female – SCHUKO	
GST 18i3 Female		SCHUKO	
GST 15i3 Male		GST 15i3 Female	

Color:	Male – Female	Female – SCHUKO
Cable:	GST 18i3 Female	SCHUKO
Cable:	GST 15i3 Male	GST 15i3 Female

Length <sup>2)</sup>	Part No.	Part No.
1.5 m	99.400.4346.1	
3.0 m	99.401.4346.1	91.232.2007.1
5.0 m	99.402.4346.1	



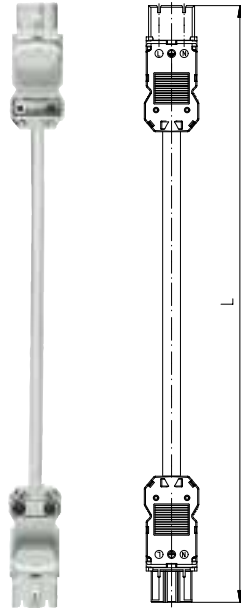
## Cable assemblies 3 pole 250V/16A

**Cable: H05 Z1Z1-F**

**Insulation:  
halogen-free**



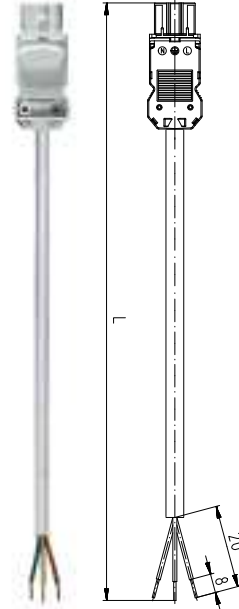
⊕ = GN/YE  
N = BU  
L = BN



**Extension cable**

3 G 1.5 mm<sup>2</sup>

Female – Male

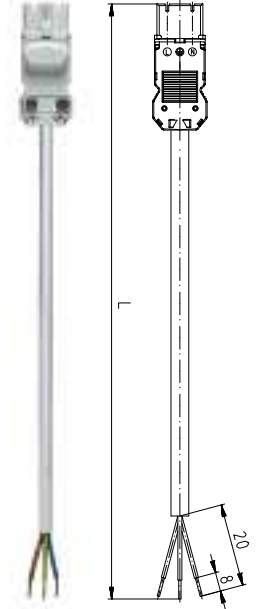


**Connection cable**

3 G 1.5 mm<sup>2</sup>

Female – Free end

Wire ends<sup>1)</sup> ultrason. welded



**Connection cable**

3 G 1.5 mm<sup>2</sup>

Male – Free end

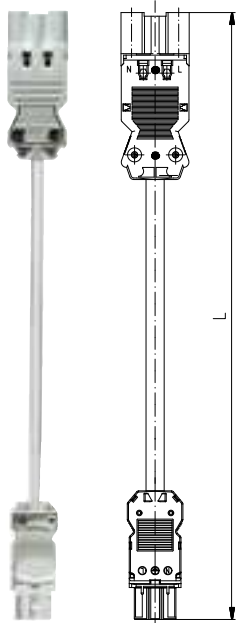
Wire ends<sup>1)</sup> ultrason. welded

Application	Coding	Color	Length <sup>2)</sup>	Part No.	Part No.	Part No.
Power with ⊕	Code 1 Female	black	1.0 m	91.232.1060.1	91.232.1063.1	91.232.1064.1
			2.0 m	91.232.2060.1	91.232.2063.1	91.232.2064.1
			3.0 m	91.232.3060.1	91.232.3063.1	91.232.3064.1
			4.0 m	91.232.4060.1	91.232.4063.1	91.232.4064.1
		Cable black	5.0 m	91.232.5060.1	91.232.5063.1	91.232.5064.1
			6.0 m	91.232.6060.1	91.232.6063.1	91.232.6064.1
			7.0 m	91.232.7060.1	91.232.7063.1	91.232.7064.1
			8.0 m	91.232.8060.1	91.232.8063.1	91.232.8064.1
	Male	white	1.0 m	91.232.1060.2	91.232.1063.2	91.232.1064.2
			2.0 m	91.232.2060.2	91.232.2063.2	91.232.2064.2
			3.0 m	91.232.3060.2	91.232.3063.2	91.232.3064.2
			4.0 m	91.232.4060.2	91.232.4063.2	91.232.4064.2
		Cable white	5.0 m	91.232.5060.2	91.232.5063.2	91.232.5064.2
			6.0 m	91.232.6060.2	91.232.6063.2	91.232.6064.2
			7.0 m	91.232.7060.2	91.232.7063.2	91.232.7064.2
			8.0 m	91.232.8060.2	91.232.8063.2	91.232.8064.2

<sup>1)</sup> Other sheath and insulation strip lengths available on request

<sup>2)</sup> Other lengths available on request

Standard cable type H05Z1Z1-F



**Cable assemblies**

3 G 1.5 mm<sup>2</sup>

Female – Male

GST18i3 Male

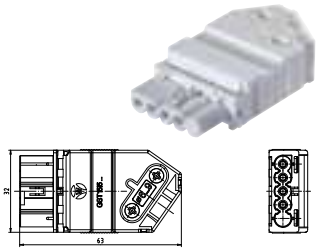
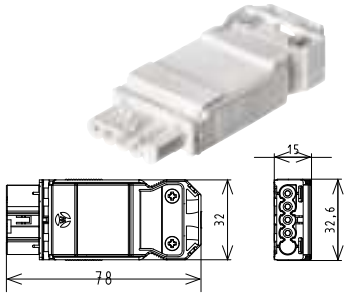

GST15i3 Female

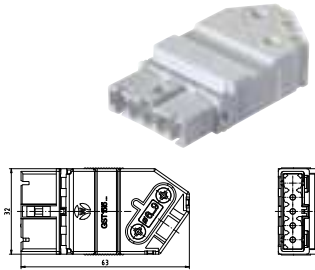
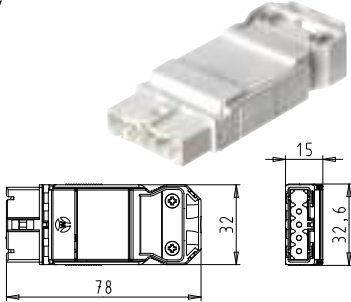

Length <sup>2)</sup>	Part No.
1.0 m	91.232.1069.1
2.0 m	91.232.2069.1
3.0 m	91.232.3069.1
4.0 m	91.232.4069.1
5.0 m	91.232.5069.1
6.0 m	91.232.6069.1
7.0 m	91.232.7069.1
8.0 m	91.232.8069.1
1.0 m	91.232.1069.2
2.0 m	91.232.2069.2
3.0 m	91.232.3069.2
4.0 m	91.232.4069.2
5.0 m	91.232.5069.2
6.0 m	91.232.6069.2
7.0 m	91.232.7069.2
8.0 m	91.232.8069.2





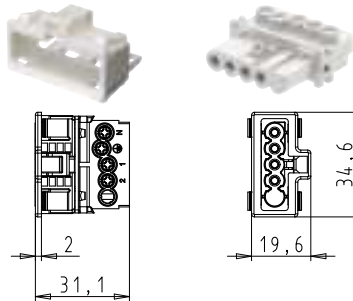
## Connectors, device connectors 250/400V/16A

Female connector			Connector with angled cable entry	Connector with straight cable entry
				
Application	Coding	Color	Part No.	Part No.
			<b>with strain relief</b>	<b>with strain relief</b>
			Cable	mm <sup>2</sup>
			Connection solid/fine-stranded	0.5–1.5
			Cable diameters	6.0–11.5 H05VV-F, NYM
			Ground wire strip length	31.0 mm
			Sheath strip length	26.0 mm
			Insul. strip length	8.0 mm
			Connection	Screw connection
Power with ⊕	Code 1	N ⊕ 1 2 - 	white	91.941.3053.0
			black	91.941.3053.1
			Type	GST15i4S B1 ZW 1V
				91.941.4053.0
				91.941.4053.1
				GST15i4S B1 ZR 1

Male connector			Connector with angled cable entry	Connector with straight cable entry
				
Application	Coding	Color	Part No.	Part No.
			<b>with strain relief</b>	<b>with strain relief</b>
			Cable	mm <sup>2</sup>
			Connection solid/fine-stranded	0.5–1.5
			Cable diameters	6.0–11.5 H05VV-F, NYM
			Ground wire strip length	31.0 mm
			Sheath strip length	26.0 mm
			Insul. strip length	8.0 mm
			Connection	Screw connection
Power with ⊕	Code 1	- 2 1 ⊕ N 	white	91.942.3053.0
			black	91.942.3053.1
			Type	GST15i4S S1 ZW 1V
				91.942.4053.0
				91.942.4053.1
				GST15i4S S1 ZR 1

## Female connector

## Device connector with locking device

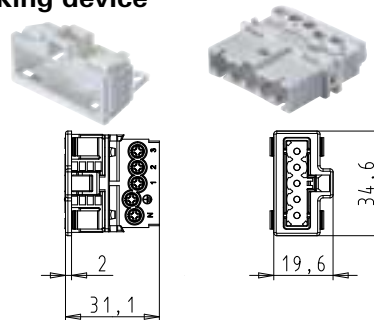


Application	Coding	Color	Part No.
Sheet metal cut-out:			<b>Material thickness: 0.5 –1.5 mm<sup>1)</sup></b>
			Cable mm <sup>2</sup>
			fine-stranded 0.5–2.5 without ferrule
			solid-stranded 0.5–2.5 without ferrule
			Termin. pole 1
			Insul. strip length 8.0 mm
			Installation snap-in Housing cut out <sup>1)</sup>
			Connection Screw connection
Power with ⊕	Code 1	white	91.941.9053.0
		black	91.941.9053.1
		Type	GST15i4S B1 R V



## Male connector

## Device connector with locking device



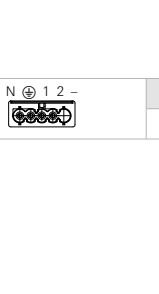

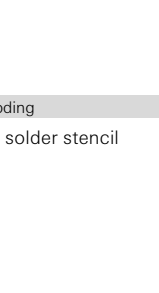




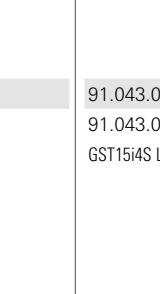

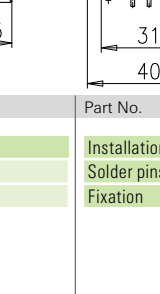
Application	Coding	Color	Part No.
Sheet metal cut-out:			<b>Material thickness: 0.5 –1.5 mm<sup>1)</sup></b>
			Cable mm <sup>2</sup>
			fine-stranded 0.5–2.5 without ferrule
			solid-stranded 0.5–2.5 without ferrule
			Termin. pole 1
			Insul. strip length 8.0 mm
			Installation snap-in Housing cut out <sup>1)</sup>
			Connection Screw connection
Power with ⊕	Code 1	white	91.942.9053.0
		black	91.942.9053.1
		Type	GST15i4S S1 R V



<sup>1)</sup> Housing material, paint and deburring may influence the tight fit inside the housing.  
Detailed installation instructions available on request.

## Solder parts 250/400V/16A

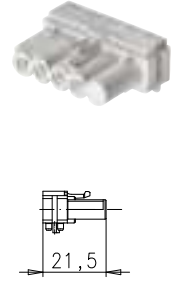
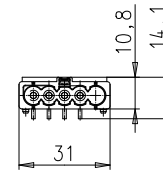
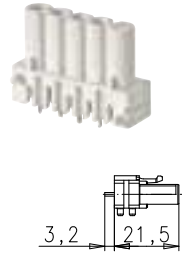
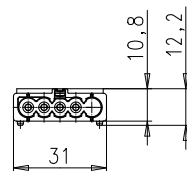
Female connector			Solder connector, vertical with screw flange	Solder connector, horizontal with screw flange												
<p>Application: See Technical Data for the solder stencil</p> <p>Coding: See Technical Data for the solder stencil</p> <p>Color: white, black</p> <p>Type: GST15i4S L B1 VB</p> <p>Power with ⊕: Code 1 N ⊕ 1 2 -</p> 			  <p>Part No.:</p> <table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Screw flange</td></tr> </table>	Installation pos.	vertical	Solder pins	3.2 mm	Fixation	Screw flange	  <p>Part No.:</p> <table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Screw flange with studs</td></tr> </table>	Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Screw flange with studs
Installation pos.	vertical															
Solder pins	3.2 mm															
Fixation	Screw flange															
Installation pos.	horizontal															
Solder pins	3.2 mm															
Fixation	Screw flange with studs															
			<p>91.041.0153.0</p> <p>91.041.0153.1</p> <p>GST15i4S L B1 VB</p>	<p>91.043.0153.0</p> <p>91.043.0153.1</p> <p>GST15i4S LB1 HB</p>												

Male connector			Solder connector, vertical with screw flange	Solder connector, horizontal with screw flange												
<p>Application: See Technical Data for the solder stencil</p> <p>Coding: See Technical Data for the solder stencil</p> <p>Color: white, black</p> <p>Type: GST15i4S L S1 VB</p> <p>Power with ⊕: Code 1 - 2 1 ⊕ N</p> 			  <p>Part No.:</p> <table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Screw flange</td></tr> </table>	Installation pos.	vertical	Solder pins	3.2 mm	Fixation	Screw flange	  <p>Part No.:</p> <table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Screw flange with studs</td></tr> </table>	Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Screw flange with studs
Installation pos.	vertical															
Solder pins	3.2 mm															
Fixation	Screw flange															
Installation pos.	horizontal															
Solder pins	3.2 mm															
Fixation	Screw flange with studs															
			<p>91.042.0153.0</p> <p>91.042.0153.1</p> <p>GST15i4S L S1 VB</p>	<p>91.044.0153.0</p> <p>91.044.0153.1</p> <p>GST15i4 L S1 HB</p>												

## Female connector

## Solder connector, vertical

## Solder connector, horizontal

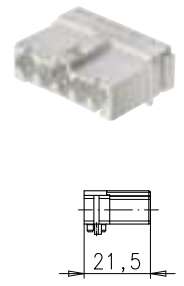
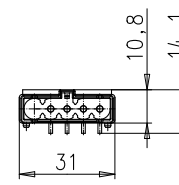
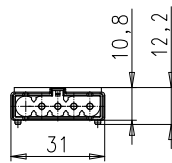


Application	Coding	Color	Part No.	Part No.
See Technical Data for the solder stencil			Installation pos. vertical	Installation pos. horizontal
			Solder pins 3.2 mm	Solder pins 3.2 mm
			Fixation none	Fixation Studs
Power with ⊕	Code 1		white 91.041.0053.0	91.043.0053.0
			black 91.041.0053.1	91.043.0053.1
			Type GST15i4 L B1 V	Type GST15i4 L B1 H

## Male connector

## Solder connector, vertical

## Solder connector, horizontal



Application	Coding	Color	Part No.	Part No.
See Technical Data for the solder stencil			Installation pos. vertical	Installation pos. horizontal
			Solder pins 3.2 mm	Solder pins 3.2 mm
			Fixation none	Fixation Studs
Power with ⊕	Code 1		white 91.042.0053.0	91.044.0053.0
			black 91.042.0053.1	91.044.0053.1
			Type GST15i4 L S1 V	Type GST15i4 L S1 H





## Cable assemblies 4 pole 250/400V/16A

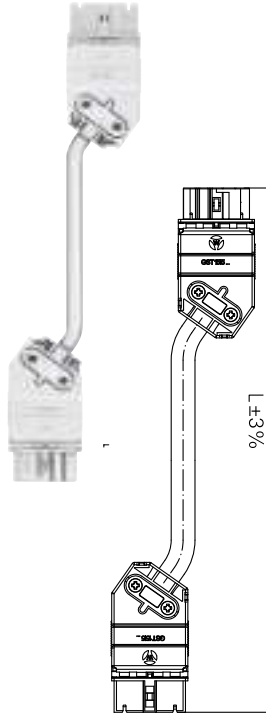
**H05VV-F**

**Insulation:  
containing halogen  
(PVC)**



⊕ = GN/YE  
N = BU  
1 = BN  
2 = BK

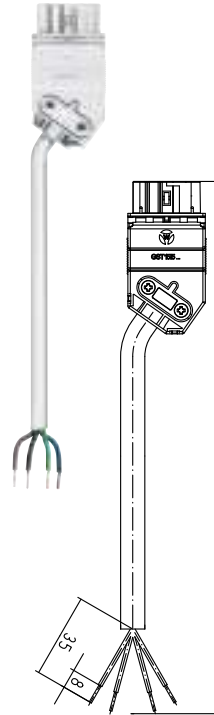
Standard cable type H05VV-F



**Extension cable**

4 G 1.5 mm<sup>2</sup><sup>3)</sup>

Female – Male

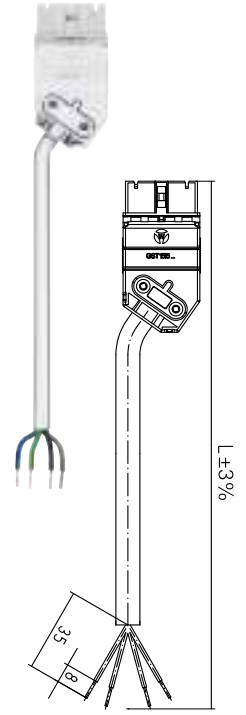


**Connection cable**

4 G 1.5 mm<sup>2</sup><sup>3)</sup>

Female – Free end

Wire ends<sup>1)</sup> ultrason. welded



**Connection cable**

4 G 1.5 mm<sup>2</sup><sup>3)</sup>

Male – Free end

Wire ends<sup>1)</sup> ultrason. welded

Application	Coding	Color	Length <sup>2)</sup>	Part No.	Part No.	Part No.
Power with ⊕	Code 1 Female - 2 1 ⊕ N	white Cable white, angled strain relief	1.0 m	91.207.1000.2	91.207.1003.2	91.207.1004.2
			2.0 m	91.207.2000.2	91.207.2003.2	91.207.2004.2
			3.0 m	91.207.3000.2	91.207.3003.2	91.207.3004.2
			4.0 m	91.207.4000.2	91.207.4003.2	91.207.4004.2
			5.0 m	91.207.5000.2	91.207.5003.2	91.207.5004.2
			6.0 m	91.207.6000.2	91.207.6003.2	91.207.6004.2
			7.0 m	91.207.7000.2	91.207.7003.2	91.207.7004.2
			8.0 m	91.207.8000.2	91.207.8003.2	91.207.8004.2
	Male	white Cable white, straight strain relief	1.0 m	on request	on request	on request
			2.0 m			
			3.0 m			
			4.0 m			
			5.0 m			
			6.0 m			
			7.0 m			
			8.0 m			

<sup>1)</sup> Other sheath and insulation strip lengths available on request

<sup>2)</sup> Other lengths available on request

<sup>3)</sup> Cable cross section 4 G 2.5 mm<sup>2</sup> on request

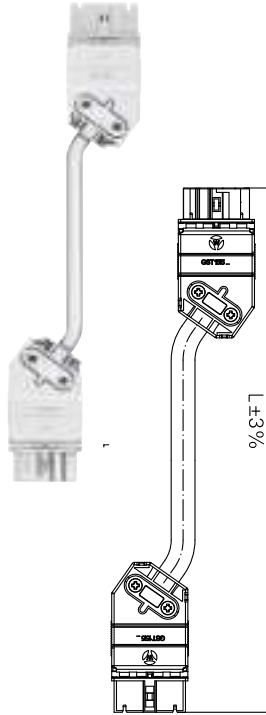
## H05Z1Z1-F

Insulation:  
halogen-free



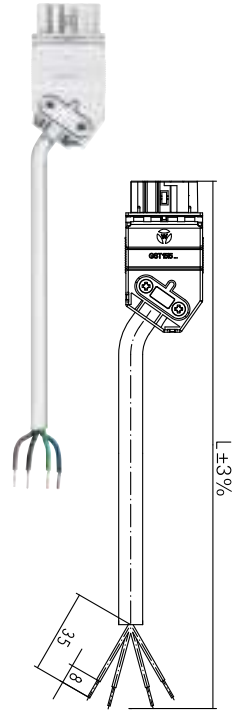
⊕ = GN/YE  
N = BU  
1 = BN  
2 = BK

Standard cable type H05Z1Z1-F



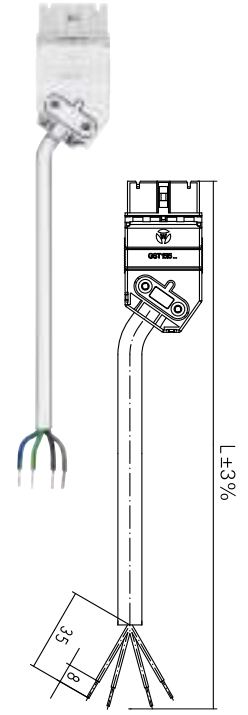
### Extension cable

4 G 1.5 mm<sup>2</sup><sup>3)</sup>  
Female – Male



### Connection cable

4 G 1.5 mm<sup>2</sup><sup>3)</sup>  
Female – Free end  
Wire ends<sup>1)</sup> ultrason. welded



### Connection cable

4 G 1.5 mm<sup>2</sup><sup>3)</sup>  
Male – Free end  
Wire ends<sup>1)</sup> ultrason. welded


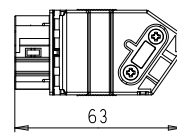
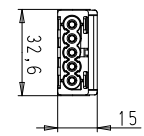

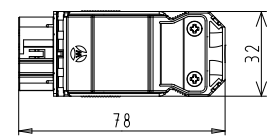
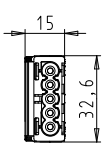



Application	Coding	Color	Length <sup>2)</sup>	Part No.	Part No.	Part No.
Power with ⊕	Code 1 Female - 2 1 ⊕ N	white	1.0 m	91.207.1060.2	91.207.1063.2	91.207.1064.2
			2.0 m	91.207.2060.2	91.207.2063.2	91.207.2064.2
			3.0 m	91.207.3060.2	91.207.3063.2	91.207.3064.2
			4.0 m	91.207.4060.2	91.207.4063.2	91.207.4064.2
			5.0 m	91.207.5060.2	91.207.5063.2	91.207.5064.2
			6.0 m	91.207.6060.2	91.207.6063.2	91.207.6064.2
			7.0 m	91.207.7060.2	91.207.7063.2	91.207.7064.2
			8.0 m	91.207.8060.2	91.207.8063.2	91.207.8064.2
		white	1.0 m	on request	on request	on request
			2.0 m			
			3.0 m			
			4.0 m			
			5.0 m			
			6.0 m			
			7.0 m			
			8.0 m			


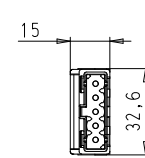
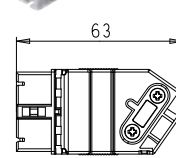
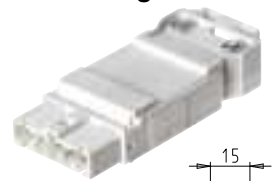
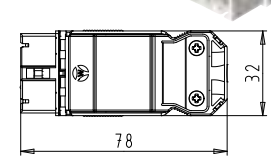
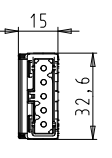



<sup>1)</sup> Other sheath and insulation strip lengths available on request

<sup>2)</sup> Other lengths available on request

<sup>3)</sup> Cable cross section 4 G 2.5 mm<sup>2</sup> on request

## Connectors, device connectors 250/400V/16A

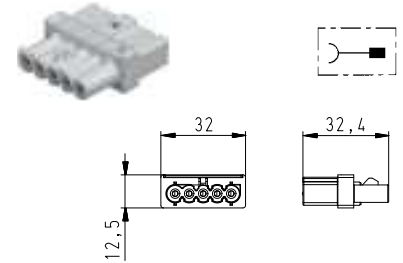
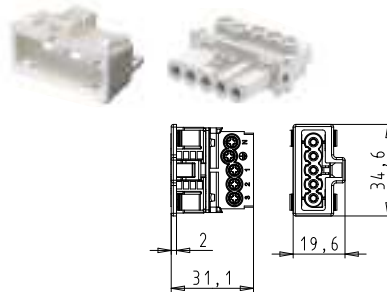
Female connector			Connector with angled cable entry			Connector with straight cable entry		
			  			  		
Application	Coding	Color	Part No.			Part No.		
			<b>with strain relief</b>			<b>with strain relief</b>		
			Cable	mm <sup>2</sup>		Cable	mm <sup>2</sup>	
			Connection solid/fine-stranded	0.5–1.5		Connection solid/fine-stranded	0.5–2.5	without ferrule
			Cable diameters	6.0 – 11.5	H05VV-F, NYM	Cable diameters	8.5 – 12.5	
			Ground wire strip length	32.0 mm		Ground wire strip length	32.0 mm	
			Sheath strip length	26.0 mm		Sheath strip length	26.0 mm	
			Insul. strip length	8.0 mm		Insul. strip length	8.0 mm	
			Connection	Screw connection		Connection	Screw connection	
Power 250/400 V / 16A	Code 1		white	91.951.3053.0		91.951.4053.0		
			black	91.951.3053.1		91.951.4053.1		
Power 250 V + Dimming / 16A	Code 2		pastel blue	91.951.3453.0		91.951.4453.0		
Low voltage 50 V / 16A	Code 3		light blue	91.951.3353.0		91.951.4353.0		
			Type	GST15i5S B1 ZW1		GST15i5S B1 ZR 1W		

Male connector			Connector with angled cable entry			Connector with straight cable entry		
			  			  		
Application	Coding	Color	Part No.			Part No.		
			<b>with strain relief</b>			<b>with strain relief</b>		
			Cable	mm <sup>2</sup>		Cable	mm <sup>2</sup>	
			Connection solid/fine-stranded	0.5–1.5		Connection solid/fine-stranded	0.5–2.5	without ferrule
			Cable diameters	6.0 – 11.5	H05VV-F, NYM	Cable diameters	8.5 – 12.5	
			Ground wire strip length	32.0 mm		Ground wire strip length	32.0 mm	
			Sheath strip length	26.0 mm		Sheath strip length	26.0 mm	
			Insul. strip length	8.0 mm		Insul. strip length	8.0 mm	
			Connection	Screw connection		Connection	Screw connection	
Power 250/400 V / 16A	Code 1		white	91.952.3053.0		91.952.4053.0		
			black	91.952.3053.1		91.952.4053.1		
Power 250 V + Dimming / 16A	Code 2		pastel blue	91.952.3453.0		91.952.4453.0		
Low voltage 50 V / 16A	Code 3		light blue	91.952.3353.0		91.952.4353.0		
			Type	GST15i5S S1 Z2 W1		GST15i5S S1 ZR 1		

## Female connector

## Device connector

## Intermediate coupling

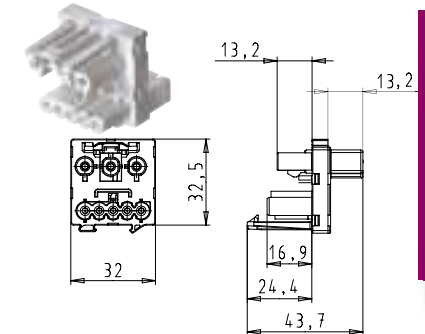
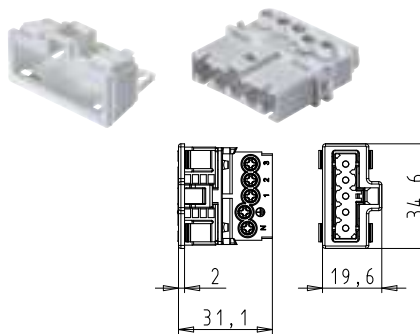


Application	Coding	Color	Part No.	Part No.
Sheet metal cut-out:			<b>Material thickness: 0.5 –1.5 mm<sup>1)</sup></b>	<b>For direct routing, for example from luminaire to luminaire</b>
			Cable mm <sup>2</sup>	<b>1 input</b>
			fine-stranded 0.5–2.5	without ferrule
			solid-stranded	
			Termin. pole 1	
			Insul. strip length 8.0mm	
			Installation snap-in Housing cut out <sup>1)</sup>	
			Connection Screw connection	
Power 250/400 V / 16 A	Code 1 	white black	91.951.9053.0	91.050.5953.0
Power 250 V + Dimming / 16 A	Code 2 	pastel blue	91.951.9453.0	91.050.5953.1
Low voltage 50 V / 16 A	Code 3 	light blue	91.951.9353.0	91.050.6053.0
	Type		GST15i5S B1 R S	GST15i5 Z1 P1

## Male connector

## Device connector

## Distribution units



Application	Coding	Color	Part No.	Part No.
Sheet metal cut-out:			<b>Material thickness: 0.5 –1.5 mm<sup>1)</sup></b>	<b>Three-phase/single-phase distribution</b>
			Cable mm <sup>2</sup>	<b>Transition from GST15i5 to 18i3</b>
			fine-stranded 0.5–2.5	without ferrule
			solid-stranded	
			Termin. pole 1	
			Insul. strip length 8.0mm	
			Installation snap-in Housing cut out <sup>1)</sup>	
			Connection Screw connection	
Power 250/400 V / 16 A	Code 1 	white black	91.952.9053.0	91.050.3151.0 L1 Pickup
Power 250 V + Dimming / 16 A	Code 2 	pastel blue	91.952.9053.1	91.050.3251.0 L2 Pickup
Low voltage 50 V / 16 A	Code 3 	light blue	91.952.9353.0	91.050.3351.0 L3 Pickup
	Type		GST15i5S S1 R	

<sup>1)</sup> Housing material, paint and deburring may influence the tight fit inside the housing.  
Detailed installation instructions available on request.



## Solder parts 250/400V/16A

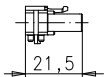
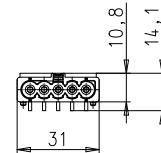
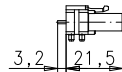
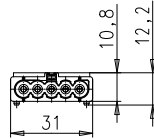
Female connector			Solder connector, vertical with screw flange	Solder connector, horizontal with screw flange
Application			Part No.	Part No.
Coding			Installation pos. vertical	Installation pos. horizontal
Color			Solder pins 3.2 mm	Solder pins 3.2 mm
See Technical Data for the solder stencil			Fixation Screw flange with studs	Fixation Screw flange with studs
Power 250/400V / 16A	Code 1	N ⊕ 1 2 3	91.051.0153.0	91.053.0153.0
			91.051.0153.1	91.053.0153.1
Power 250V + Dimming / 16A	Code 2	N ⊕ L D2 D1	91.051.0353.0	91.053.0353.0
Low voltage 50V / 16A	Code 3	5 4 3 2 1	91.051.0553.0	91.053.0553.0
Type			GST15i5L B1 VB	GST15i5 L B1 HB

Male connector			Solder connector, vertical with screw flange	Solder connector, horizontal with screw flange
Application			Part No.	Part No.
Coding			Installation pos. vertical	Installation pos. horizontal
Color			Solder pins 3.2 mm	Solder pins 3.2 mm
See Technical Data for the solder stencil			Fixation Screw flange with studs	Fixation Screw flange with studs
Power 250/400V / 16A	Code 1	3 2 1 ⊕ N	91.052.0153.0	91.054.0153.0
			91.052.0153.1	91.054.0153.1
Power 250V + Dimming / 16A	Code 2	D1 D2 L ⊕ N	91.052.0353.0	91.054.0353.0
Low voltage 50V / 16A	Code 3	1 2 3 4 5	91.052.0553.0	91.054.0553.0
Type			GST15i5L S1 VB	GST15i5L S1 HB

## Female connector

## Solder connector, vertical

## Solder connector, horizontal

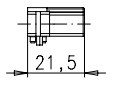
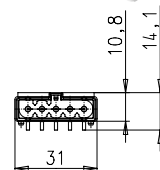
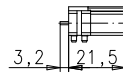
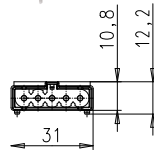


Application	Coding	Color	Part No.	Part No.												
See Technical Data for the solder stencil			<table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>none</td></tr> </table>	Installation pos.	vertical	Solder pins	3.2 mm	Fixation	none	<table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Studs</td></tr> </table>	Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Studs
Installation pos.	vertical															
Solder pins	3.2 mm															
Fixation	none															
Installation pos.	horizontal															
Solder pins	3.2 mm															
Fixation	Studs															
Power 250/400 V / 16 A	Code 1	<table border="1"> <tr><td>N ⊕ 1 2 3</td></tr> <tr><td></td></tr> </table>	N ⊕ 1 2 3		white	91.051.0053.0	91.053.0053.0									
N ⊕ 1 2 3																
			black	91.051.0053.1	91.053.0053.1											
Power 250 V + Dimming / 16 A	Code 2	<table border="1"> <tr><td>N ⊕ L D2 D1</td></tr> <tr><td></td></tr> </table>	N ⊕ L D2 D1		pastel blue	91.051.0253.0	91.053.0253.0									
N ⊕ L D2 D1																
Low voltage 50 V / 16 A	Code 3	<table border="1"> <tr><td>5 4 3 2 1</td></tr> <tr><td></td></tr> </table>	5 4 3 2 1		light blue	91.051.0453.0	91.053.0453.0									
5 4 3 2 1																
Type			GST15i5 L B1 V	GST15i5 L B1 H												

## Male connector


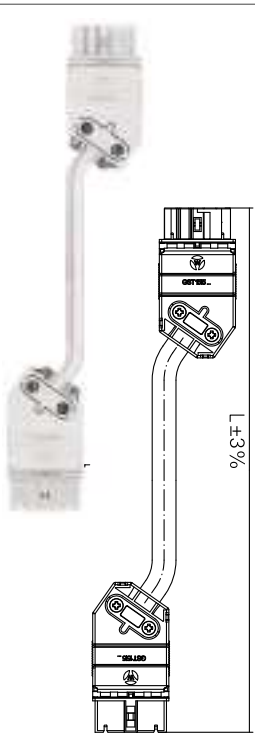
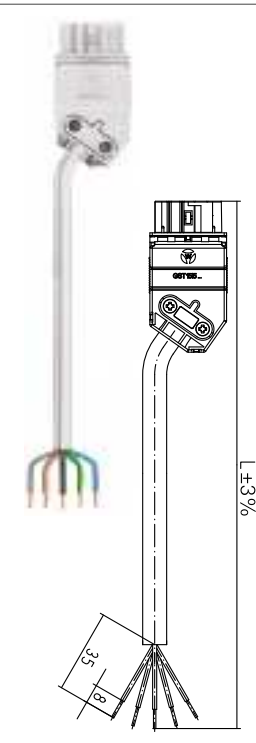
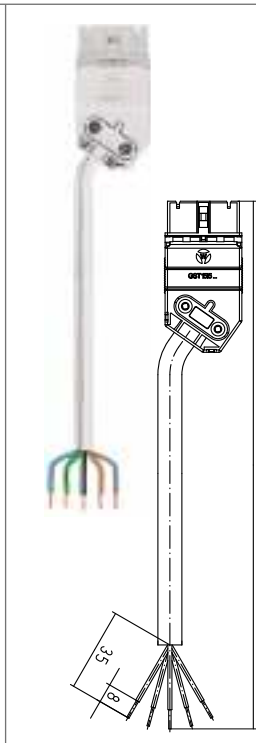






## Solder connector, vertical

## Solder connector, horizontal



Application	Coding	Color	Part No.	Part No.												
See Technical Data for the solder stencil			<table border="1"> <tr><td>Installation pos.</td><td>vertical</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>none</td></tr> </table>	Installation pos.	vertical	Solder pins	3.2 mm	Fixation	none	<table border="1"> <tr><td>Installation pos.</td><td>horizontal</td></tr> <tr><td>Solder pins</td><td>3.2 mm</td></tr> <tr><td>Fixation</td><td>Studs</td></tr> </table>	Installation pos.	horizontal	Solder pins	3.2 mm	Fixation	Studs
Installation pos.	vertical															
Solder pins	3.2 mm															
Fixation	none															
Installation pos.	horizontal															
Solder pins	3.2 mm															
Fixation	Studs															
Power 250/400 V / 16 A	Code 1	<table border="1"> <tr><td>3 2 1 ⊕ N</td></tr> <tr><td></td></tr> </table>	3 2 1 ⊕ N		white	91.052.0053.0	91.054.0053.0									
3 2 1 ⊕ N																
			black	91.052.0053.1	91.054.0053.1											
Power 250 V + Dimming / 16 A	Code 2	<table border="1"> <tr><td>D1 D2 L ⊕ N</td></tr> <tr><td></td></tr> </table>	D1 D2 L ⊕ N		pastel blue	91.052.0253.0	91.054.0253.0									
D1 D2 L ⊕ N																
Low voltage 50 V / 16 A	Code 3	<table border="1"> <tr><td>1 2 3 4 5</td></tr> <tr><td></td></tr> </table>	1 2 3 4 5		light blue	91.052.0453.0	91.054.0453.0									
1 2 3 4 5																
Type			GST15i5 L S1 V	GST15i5 L S1 H												

## Cable assemblies 5 pole 250/400V/16A

H05VV-F 5G1.5														
<b>Insulation: containing halogen (PVC)</b>														
 <p>Power: ⊕ = GN/YE N = BU 1 = BN 2 = BK 3 = GY</p> <p>Dimming: ⊕ = GN/YE N = BU L = BN D2 = BK D1 = GY</p>			Standard cable type H05VV-F											
			<b>Extension cable*</b>			<b>Connection cable*</b>			<b>Connection cable*</b>					
			5 G 1.5 mm <sup>2</sup> <sup>3)</sup>			5 G 1.5 mm <sup>2</sup> <sup>3)</sup>			5 G 1.5 mm <sup>2</sup> <sup>3)</sup>					
			Female – Male			Female – Free end			Male – Free end					
						Wire ends <sup>1)</sup> ultrason. welded			Wire ends <sup>1)</sup> ultrason. welded					
Application	Coding	Color	Length <sup>2)</sup>	Part No.	VPE	Part No.	VPE	Part No.	VPE					
Power 250/400V / 16A	Code 1  Female  Male	black	1.0 m	91.257.1000.1		91.257.1003.1		91.257.1004.1						
			2.0 m	91.257.2000.1		91.257.2003.1		91.257.2004.1						
			3.0 m	91.257.3000.1		91.257.3003.1		91.257.3004.1						
			4.0 m	91.257.4000.1		91.257.4003.1		91.257.4004.1						
		Cable black	5.0 m	91.257.5000.1		91.257.5003.1		91.257.5004.1						
			6.0 m	91.257.6000.1		91.257.6003.1		91.257.6004.1						
			7.0 m	91.257.7000.1		91.257.7003.1		91.257.7004.1						
			8.0 m	91.257.8000.1		91.257.8003.1		91.257.8004.1						
	white	Cable white	1.0 m	91.257.1000.2		91.257.1003.2		91.257.1004.2						
			2.0 m	91.257.2000.2		91.257.2003.2		91.257.2004.2						
			3.0 m	91.257.3000.2		91.257.3003.2		91.257.3004.2						
			4.0 m	91.257.4000.2		91.257.4003.2		91.257.4004.2						
		white	5.0 m	91.257.5000.2		91.257.5003.2		91.257.5004.2						
			6.0 m	91.257.6000.2		91.257.6003.2		91.257.6004.2						
			7.0 m	91.257.7000.2		91.257.7003.2		91.257.7004.2						
			8.0 m	91.257.8000.2		91.257.8003.2		91.257.8004.2						
Power 250V + Dimming / 16A	Code 2  Female  Male	pastel blue white	1.0 m	91.257.1000.9		91.257.1003.9		91.257.1004.9						
			2.0 m	91.257.2000.9		91.257.2003.9		91.257.2004.9						
			3.0 m	91.257.3000.9		91.257.3003.9		91.257.3004.9						
			4.0 m	91.257.4000.9		91.257.4003.9		91.257.4004.9						
		Cable white	5.0 m	91.257.5000.9		91.257.5003.9		91.257.5004.9						
			6.0 m	91.257.6000.9		91.257.6003.9		91.257.6004.9						
			7.0 m	91.257.7000.9		91.257.7003.9		91.257.7004.9						
			8.0 m	91.257.8000.9		91.257.8003.9		91.257.8004.9						
Low voltage <sup>3)</sup> 50V / 16A	Code 3  Female  Male	light blue white	1.0 m	on request		on request		on request						
			2.0 m											
			3.0 m											
			4.0 m											
			5.0 m											
			6.0 m											
			7.0 m											
			8.0 m											

<sup>1)</sup> Other sheath and insulation strip lengths available on request

<sup>2)</sup> Other lengths available on request

<sup>3)</sup> Cable cross section 5 G 2.5 mm<sup>2</sup> on request

\* Cable assemblies 5G 1.5 mm<sup>2</sup> and 5G 2.5 mm<sup>2</sup> with straight strain relief on request

## Cable: H05Z1Z1-F 5G1.5

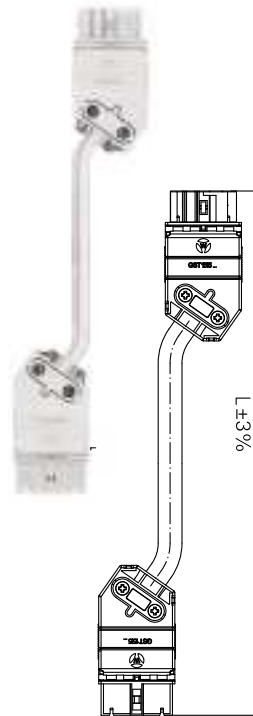
**Insulation:  
halogen-free**



Power: ⊕ = GN/YE  
N = BU  
1 = BN  
2 = BK  
3 = GY

Dimming: ⊕ = GN/YE  
N = BU  
L = BN  
D2 = BK  
D1 = GY

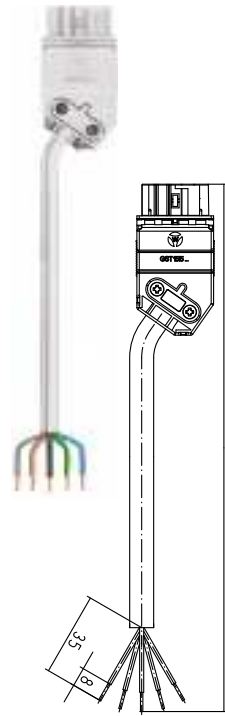
Standard cable type H05Z1Z1-F



### Extension cable\*

5 G 1.5 mm<sup>2</sup><sup>3)</sup>

Female – Male

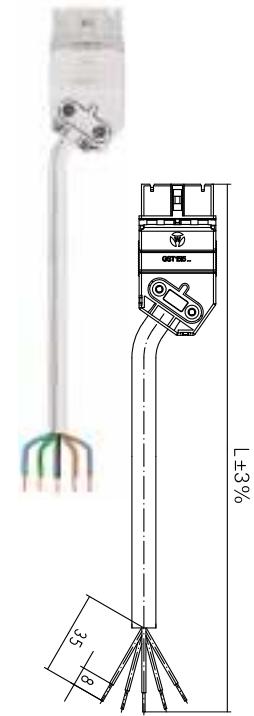


### Connection cable\*

5 G 1.5 mm<sup>2</sup><sup>3)</sup>

Female – Free end

Wire ends<sup>1)</sup> ultrason. welded



### Connection cable\*

5 G 1.5 mm<sup>2</sup><sup>3)</sup>

Male – Free end

Wire ends<sup>1)</sup> ultrason. welded

Application	Coding	Color	Length <sup>2)</sup>	Part No.	VPE	Part No.	VPE	Part No.	VPE
Power 250/400V / 16A	Code 1 	Cable black	1.0 m	91.257.1060.1		91.257.1063.1		91.257.1064.1	
			2.0 m	91.257.2060.1		91.257.2063.1		91.257.2064.1	
			3.0 m	91.257.3060.1		91.257.3063.1		91.257.3064.1	
			4.0 m	91.257.4060.1		91.257.4063.1		91.257.4064.1	
			5.0 m	91.257.5060.1		91.257.5063.1		91.257.5064.1	
			6.0 m	91.257.6060.1		91.257.6063.1		91.257.6064.1	
			7.0 m	91.257.7060.1		91.257.7063.1		91.257.7064.1	
			8.0 m	91.257.8060.1		91.257.8063.1		91.257.8064.1	
	Code 2 	Cable white	1.0 m	91.257.1060.2		91.257.1063.2		91.257.1064.2	
			2.0 m	91.257.2060.2		91.257.2063.2		91.257.2064.2	
			3.0 m	91.257.3060.2		91.257.3063.2		91.257.3064.2	
			4.0 m	91.257.4060.2		91.257.4063.2		91.257.4064.2	
			5.0 m	91.257.5060.2		91.257.5063.2		91.257.5064.2	
			6.0 m	91.257.6060.2		91.257.6063.2		91.257.6064.2	
			7.0 m	91.257.7060.2		91.257.7063.2		91.257.7064.2	
			8.0 m	91.257.8060.2		91.257.8063.2		91.257.8064.2	
Power 250V + Dimming / 16A	Code 2 	Cable white	1.0 m	91.257.1060.9		91.257.1063.9		91.257.1064.9	
			2.0 m	91.257.2060.9		91.257.2063.9		91.257.2064.9	
			3.0 m	91.257.3060.9		91.257.3063.9		91.257.3064.9	
			4.0 m	91.257.4060.9		91.257.4063.9		91.257.4064.9	
			5.0 m	91.257.5060.9		91.257.5063.9		91.257.5064.9	
			6.0 m	91.257.6060.9		91.257.6063.9		91.257.6064.9	
			7.0 m	91.257.7060.9		91.257.7063.9		91.257.7064.9	
			8.0 m	91.257.8060.9		91.257.8063.9		91.257.8064.9	
Low voltage <sup>3)</sup> 50V / 16A	Code 3 	Cable white	1.0 m	on request		on request		on request	
			2.0 m						
			3.0 m						
			4.0 m						
			5.0 m						
			6.0 m						
			7.0 m						
			8.0 m						

<sup>1)</sup> Other sheath and insulation strip lengths available on request

<sup>2)</sup> Other lengths available on request

<sup>3)</sup> Cable cross section 5 G 2.5 mm<sup>2</sup> on request

\* Cable assemblies 5G 1.5 mm<sup>2</sup> and 5G 2.5 mm<sup>2</sup> with straight strain relief on request



## Sample kits

**GST 15i3**



**GST 15i2 ... i5**



Part No.

99.491.0000.0

Part No.

99.427.0000.0

Additional information about the complete GST15i range (2 pole to 5 pole) available in the brochures

0700.1 "Decentralized building automation with plug&play"

0602.1 "State-of-the-Art Standard"

0409.1 "Intelligent Deal"

and in our eCat for direct ordering with further information, drawings, etc.



# Definition of our numerical codes

## A well thought-out structure for efficient ordering operations

Our numerical code saves time and makes ordering of our components convenient. Particularly in the eCat, but also in the traditional way: your needs can be compiled quickly and efficiently. The way it works is simple and refers to our part numbers, which have a consistent structure. Your product can be ordered in just a few steps.

Example: **92.232.3000.1**, power cable 3 G 1.5 mm<sup>2</sup>, length: 3.0 m, cable PVC H05VV  
Male – female design, code 1 (power, black)

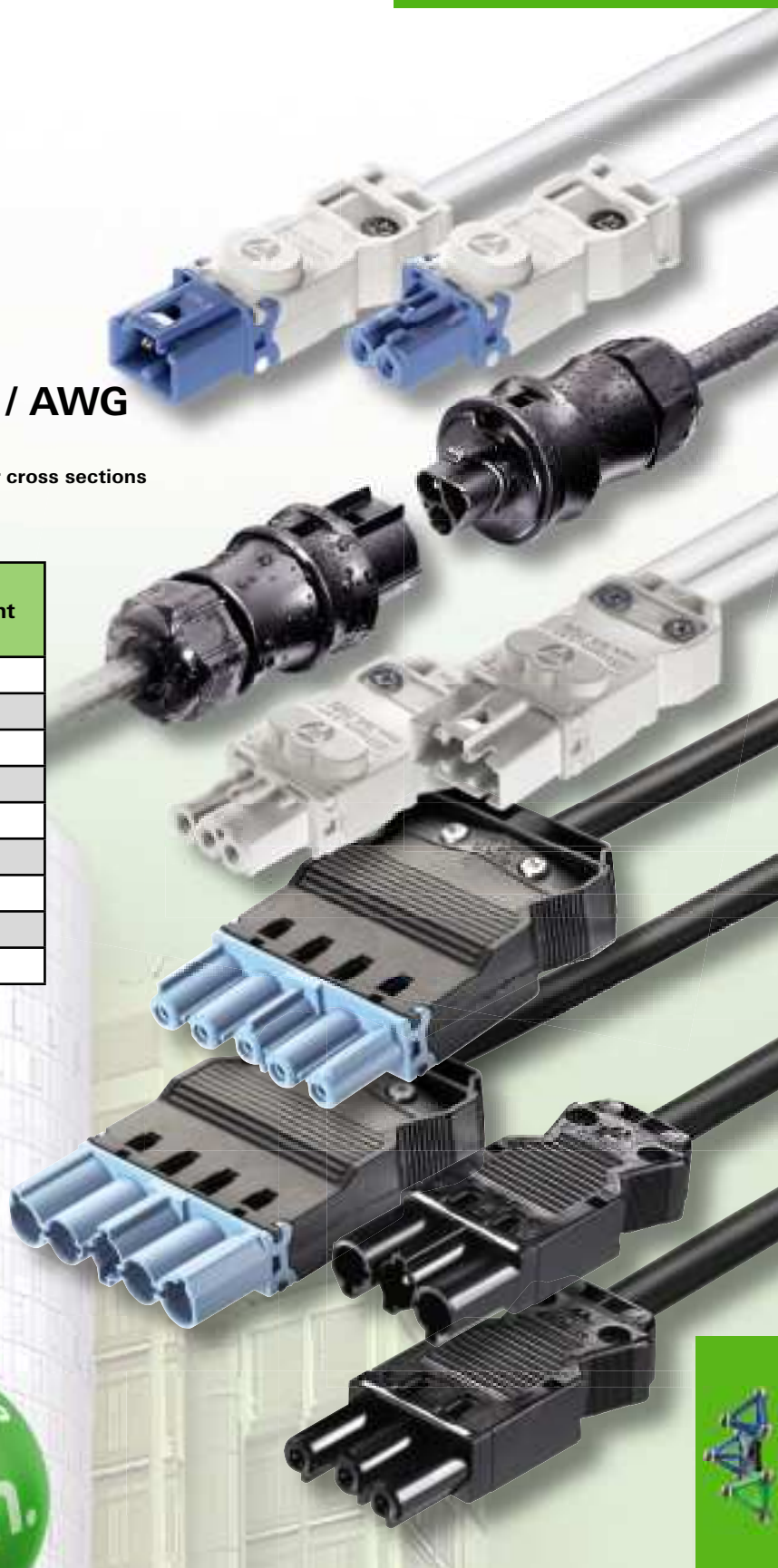
<b>Connector system</b>		<b>92.</b>	<b>232.</b>	<b>30</b>	<b>0</b>	<b>0.</b>	<b>1</b>
<b>gesis</b> MINI (GST 15)		91.					
<b>gesis</b> CON (GST 18)		92.					
<b>gesis</b> CON (BST)		94.					
<b>gesis</b> IP+ (RST)		96.					
<b>Cable specification and cross section</b>	<b>in connector system</b>						
Power cable 4 G 1.5 mm <sup>2</sup>	GST 15i4, 18i4		207.				
Power cable 4 G 2.5 mm <sup>2</sup>	GST 18i4		208.				
Power cable 2 x 1.5 mm <sup>2</sup>	RST20i2		222.				
Power cable 2 x 2.5 mm <sup>2</sup>	RST20i2		223.				
Power cable 3 G 1.5 mm <sup>2</sup>	GST 15i3, 18i3		232.				
Power cable 3 G 2.5 mm <sup>2</sup>	RST20i3		233.				
Power cable 3 G 2.5 mm <sup>2</sup>	GST 18i3		238.				
Power cable 5 G 1.5 mm <sup>2</sup>	GST 15i5, 18i5		257.				
Power cable 5 G 2.5 mm <sup>2</sup>	GST 18i5		258.				
Bus cable 2 x 0.5 mm <sup>2</sup>	BST 14i2		425.				
Bus cable 2x2 0.8 mm <sup>2</sup>	BST 14i3		435.				
Power cable 4 G 1.5 mm <sup>2</sup>	RST20i4		442.				
Power cable 4 G 2.5 mm <sup>2</sup>	RST20i4		443.				
Power cable 5 G 1.5 mm <sup>2</sup>	RST20i5		452.				
Power cable 5 G 2.5 mm <sup>2</sup>	RST20i5		453.				
Power cable 5 G 4.0 mm <sup>2</sup>	RST20i5		454.				
Power cable 2 x 1.5 mm <sup>2</sup>	RST20i2 (50V)		522.				
<b>Length</b>							
Length incl. female/male connector up to 10 m in dm (Example: 3.0 m = 30 dm)				30			
<b>Cable material</b>	<b>in connector system</b>						
H05VV (PVC)	GST, RST				0		
H05V2V2 (PVC, 90 °C permanent temp.)	GST, RST				1		
H07 RN-F (rubber)	GST, RST				3		
S05Z1Z1 (halogen-free)	GST, RST				6		
Ölflex classic	GST, RST				8		
<b>Pre-assembly</b>							
Extension	Male – Female					0.	
Supply	Female – Free end					3.	
Supply	Male – Free end					4.	
Supply cable	Safety plug – Female					7.	
<b>Colors and codings Male – Female</b>	<b>in connector system</b>						
Code 1 (gray)	RST20i2 ... i5						0
Code 1 (black)	RST20i2 ... i5, GST 18i3 ... i5						1
Code 1 (white)	GST 18i3 ... i5						2
Code 2 (pebble gray)	GST 18i3 ... i4						3
Code 3 (concrete gray)	RST25i3 ... i4						3
Code 3 (light red)	GST 18i3						5
Code 4 (pastel blue)	RST20i5						6
Code 2 (green)	RST20i2						7
Code 5-2 (pastel blue)	BST 14i2, GST 18i5						9



## Conductor cross sections / AWG

The approximated relation between the conductor cross sections in mm<sup>2</sup> and the AWG sizes are defined as follows:

AWG	Cross section mm <sup>2</sup>	Metric equivalent mm <sup>2</sup>
22	0.32	0.34
20	0.52	0.75
18	0.82	1.0
16	1.31	1.5
14	2.08	2.5
12	3.31	4.0
10	5.26	6.0
8	8.37	10.0
6	13.3	16.0





# Technical data GST15i 2 ... 5 pole

## General information:

Number of poles:	2, 3, 4 and 5 pole
Rated voltage:	16A
Rated current:	250V (2 and 3 pole) 250V / 400V (4 and 5 pole)
Impulse voltage:	4kV (Overvoltage category III)
Locking device:	Integrated
Regulations:	IEC 61535
Approvals:	VDE (CB) UL, CSA under certain conditions (please contact us)
Degree of protection:	IP20 according to IEC 60529 unplugged IP40 according to IEC 60529 in plugged condition
Ambient temperatur:	-5 ... 40° C
Operating temperature:	max. 70° C for preassembled PVC cables
Ambient conditions:	Pollution degree 2 in accordance with IEC 60664: "Only non-conductive pollution occurs. However, temporary conductivity caused by condensation must be expected."
Materials:	Insulating parts: PA, halogen-free Turned contacts: CuZn, pre-coppered and silver-plated Screws: steel, galvanized
Coding:	Various mechanical and color coding white and black with same mechanical coding Please note different nominal voltages!

Generally,

the following applies:

- shock hazard protection on female connector parts even in unplugged state
- leading PE conductor;  
in a 5 pole plug, the neutral conductor is also leading over phases
- protection against mismatching according to IEC 61535
  - for single-pole plugging
  - for plugging with different pole numbers
  - for offset mating
  - turned by 180° when plugging
- no dangerous confusion with systems according to IEC 60309, IEC 60320 or IEC 60906 or with national plug and socket systems for domestic use.

## Observe the following safety notes:

In accordance with IEC 61535 installation couplers are only intended for connecting and disconnecting without load. GST15 connectors are not intended for the use in easily accessible areas. The dangerous confusion between installation coupler systems of different manufactures is not automatically avoided through compliance with EN 61535. Installation couplers are no replacement for national plugs or socket systems for domestic use.

The use of installation couplers is only permitted for electricians or people that have been trained in electronic engineering in accordance with VDE 0100 / IEC 60364.

## Operating instructions:

The GST connector series 15i2/...i5 and 18i5 are designed for a dimming voltage range of 0...230 V.

With respect to installed equipment (e.g. electronic ballast oder switches), please observe the following notes.

### **Mains voltage 230 V, dimming voltage is FELV (Functional extra low voltage, e.g. 1-10 V or DALI).**

Electrical insulation of the digital interface meets the requirements of basic insulation.

SELV (safety extra low voltage) is not warranted. All equipment must have twice the basic insulation.

### **Mains voltage 230 V, dimming voltage exceeds FELV (e.g. 230 V Touch DIM)**

All equipment must conform to protection class I (basic insulation and protective earthing) or protection class II (double or reinforced insulation).



**Connector:**

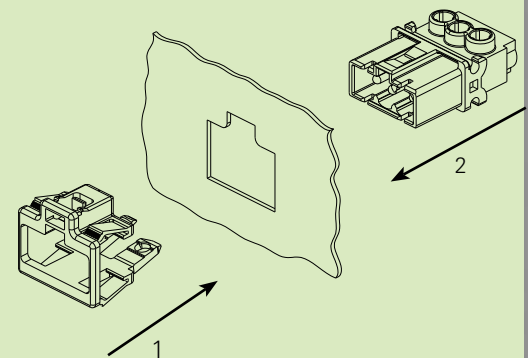
Variations: female and male connectors, each with integrated strain relief  
 Connection style: screw  
 Connection cross section of the contacts: 0.5 ... 2.5 mm<sup>2</sup>  
 Connection torque of the contacts: 0.5 Nm  
 Connection torque of the strain relief: 0.5 Nm  
 Fire load: 2 pole: 0.06 kWh  
 3 pole: 0.06 kWh  
 4 pole: 0.12 kWh  
 5 pole: 0.12 kWh

**Device connections, snap in:**

Variations: male and female, each with frame for snap-in into housing cut outs with wall thicknesses of 0.5 ...1.5 mm  
 Connection style: screw  
 Connection cross section of the contacts: 0.5 ... 2.5 mm<sup>2</sup>  
 Connection torque of the contacts: 0.5 Nm  
 Fire load: 2 pole: 0.04 kWh  
 3 pole: 0.04 kWh  
 4 pole: 0.06 kWh  
 5 pole: 0.06 kWh

**PCB connectors (solder parts):**

Variations: male and female for soldering onto circuit board  
 – each with horizontal or vertical pins  
 – each with or without mounting flange  
 Spacings: 5.3 mm  
 Pin length: 3.2 mm  
 Fire load: 2 pole: 0.03 kWh  
 3 pole: 0.03 kWh  
 4 pole: 0.04 kWh  
 5 pole: 0.04 kWh



**Distribution unit:**

Fire load:	2 pole T:	0.03 kWh	2 pole h:	0.04 kWh
	2 pole H:	0.04 kWh		
	3 pole T:	0.04 kWh	3 pole h:	0.06 kWh
	3 pole H:	0.07 kWh	3 pole HH:	0.11 kWh
	4 pole T:	0.06 kWh	4 pole h:	0.08 kWh
	4 pole H:	0.09 kWh		
	5 pole T:	0.05 kWh	5 pole h:	0.08 kWh
	5 pole H:	0.09 kWh		

**Cable, pre-assembled:**

Variations: connection cable, female – male  
 connection cable, female – free end  
 connection cable, male – free end  
 adapter cables female GST15i3 – male GST18i3  
 adapter cables male GST15i2 – female GST08i2  
 adapter cables female – Schuko® plug, angled

Free wire ends: stripped,  
 stripped and ultrasonically welded/with ferrules

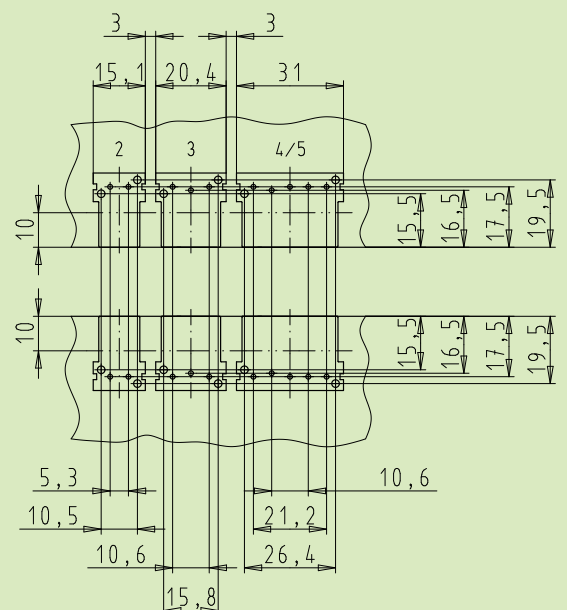
Fire load

PVC cables:

2 x 1.5 mm <sup>2</sup> :	0.28 kWh/m + 0.06 kWh	per male
3 x 1.5 mm <sup>2</sup> :	0.38 kWh/m + 0.06 kWh	per male
4 x 1.5 mm <sup>2</sup> :	0.50 kWh/m + 0.12 kWh	per male
5 x 1.5 mm <sup>2</sup> :	0.56 kWh/m + 0.12 kWh	per male

Cable:

- H05VV-F (PVC)
- H05Z1Z1-F (halogen-free)
- H03V2V2-F (PVC)



# Spanning various industries and products.



0600.1 "gesis<sup>CON</sup> Electrical installation of buildings via plug&play"



0602.1 "gesis<sup>LINECT</sup> Universal Connector System for Recessed Luminaires"



0640.1 "gesis<sup>MINI</sup> the pluggable electrical installation with a compact design"



0125.0 "selos DIN rail terminal blocks with screw connection"



0124.0 "fasis DIN rail terminal blocks with tension spring connection"



0401.1 "Electro-technical solutions for the control cabinet"



0402.1 "Components for heating, ventilation, and air conditioning"



0404.1 "Decentralized building automation with plug&play" Educational facilities



0008.6 "Environmental statement Locations Bamberg and Sokolov"



0009.0 "Wieland apprenticeship Auf der Erfolgsstraße."



0003.1 "The system partner in automation technology and in building automation technology"



0690.1 "gesis IP+  
Pluggable electrical  
installations in IP65 to IP68"



0700.1 "gesis ELECTRONIC  
Decentralized building  
automation with plug&play"

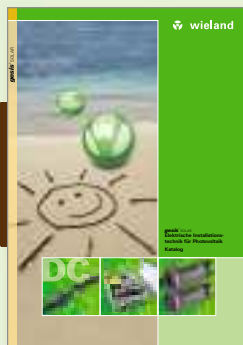
## Building and installation techn.

## Automation technology

Further documents and brochures can be downloaded quickly and easily via the Download Center on our homepage.



0408.1 "Pluggable, decentralized  
electrical installation  
for sustainable building"



0710.1 "gesis SOLAR  
Electrical Installation Technology  
for Photovoltaics"

## Industries

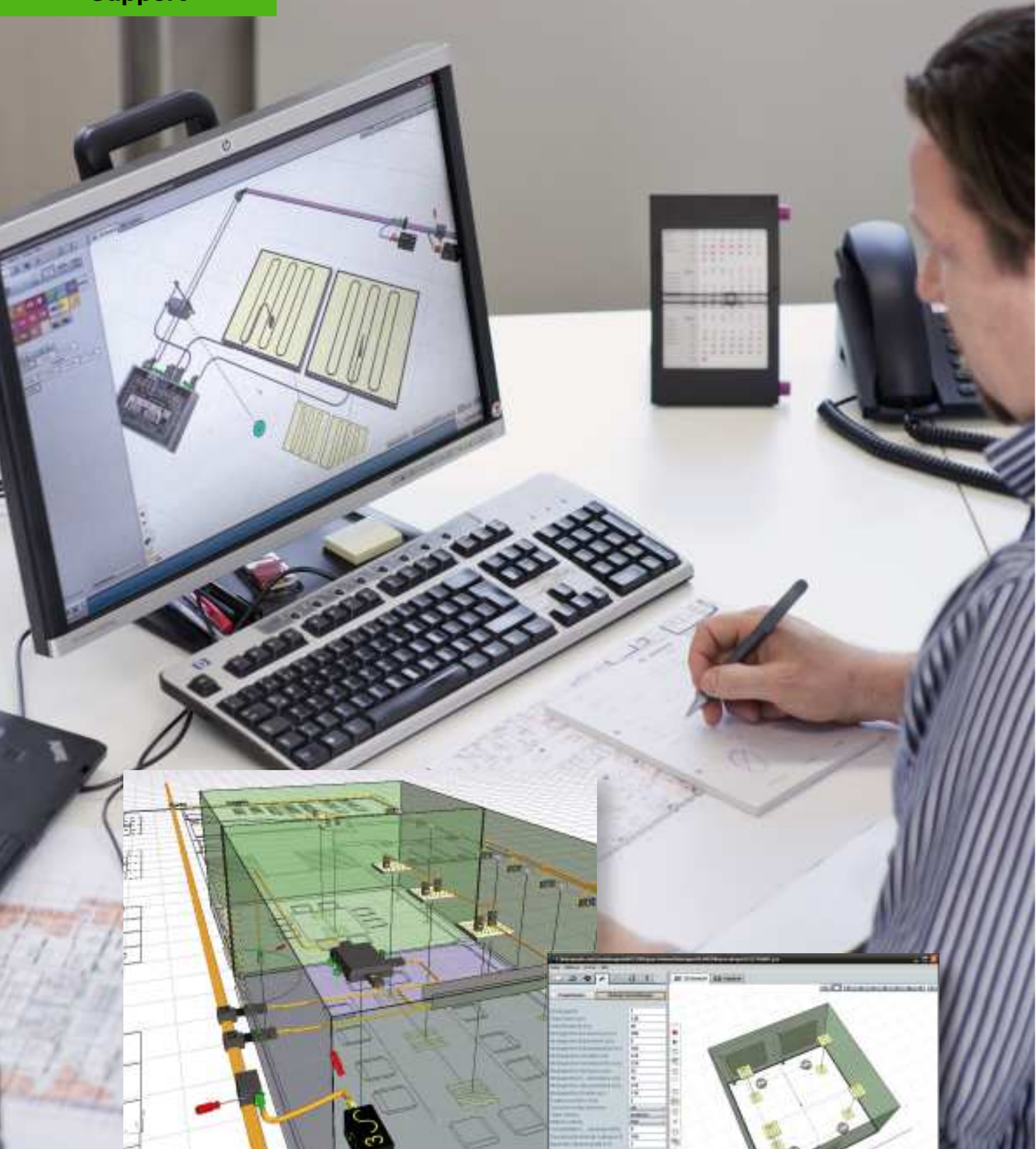
## Wieland connects.



### Wieland 100 years in Bamberg.

Wieland is one of the most important employers in Bamberg and the surrounding area. The book portrays the life of the company's founder Friedrich H. („Fritz“) Wieland and the following generations, closely intertwined with the company's history. Available in bookshops.





## **gesis**<sup>®</sup> PLAN 3D for the presentation. Display of the planning.

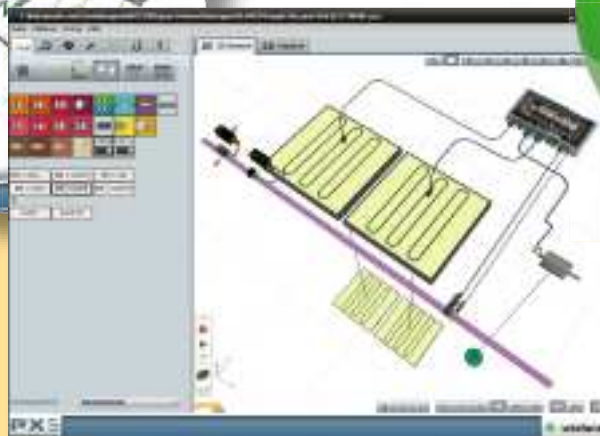
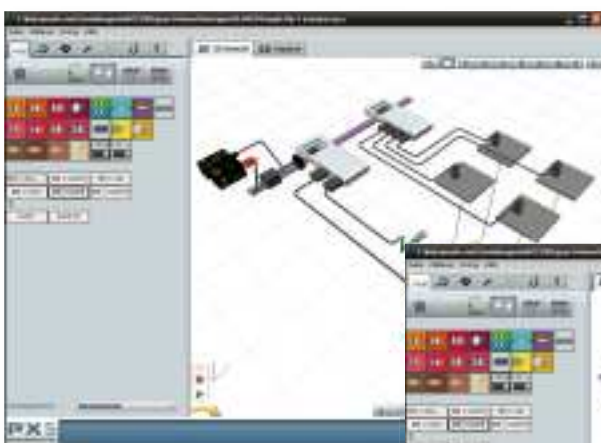
The **gesis** PLAN demonstration and planning software is a tool for conveniently designing and calculating pluggable electrical installations with **gesis**. The software supports specialist planners as well as system integrators, architects and clients in the electrical design of buildings.

The software imports the existing DWG/DXF drawings of the rooms and building parts to be installed. The required consumers, such as lamps, sockets, roller blinds etc., are placed into the 3D view on the PC, and **gesis** ELECTRONIC components, **gesis** RAN distributor units and **gesis** NRG flat cables are wired with only a few mouse-clicks. The recommended connector encoding is automatically taken into account, and the compliance with standards is checked. The installation is also calculated regarding permitted currents, voltage drops or selectivity. Possible problems are immediately indicated by the software. As a result, the planner receives an item list with exactly calculated cable lengths and price details.

The **gesis** PLAN software serves as efficient planning aid for functional buildings with flexible use of space and facility management and its usage is not only reasonable for new buildings. For building renovation it supports the reliable preliminary planning through exact calculations. Without expert knowledge the user can start right away; software wizards guide him accurately through the various screens.

The uniquely convenient solution does not only take into account the electrotechnical installation requirements, but is also capable of simulating the spatial conditions due to beams, additional walls, columns, and automatically takes them into account for cabling.

This is based on the experience of many years by the Wieland project support. It is possible to plan not only individual rooms, but also stories and entire buildings.





91.021.0053.0	■ GST15i2	19	91.033.0153.0	■ GST15i3	24	91.054.0053.0	■ GST15i5	41
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91.021.0253.0	■ GST15i2	19	91.034.0053.0	■ GST15i3	25	91.054.0253.0	■ GST15i5	41
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91.023.0053.1	■ GST15i2	19	91.042.0153.1	■ GST15i4	34	91.207.2060.2	■ GST15i4	37
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91.257.7060.1	■ GST15i5	43	91.931.9053.0	■ GST15i3	22			
91.257.7060.2	■ GST15i5	43	91.931.9053.1	■ GST15i3	22			

# Hotline, advice

## Additional information

### Technical support

#### Automation technology:

- Safety technology **safety**  
Phone: +49 951 9324-999  
e-mail: [safety@wieland-electric.com](mailto:safety@wieland-electric.com)
  - Remote power distribution **podis**®  
Phone: +49 951 9324-998
  - **interface**: Power supply, industrial Ethernet switches, timer relays, measuring and monitoring relays, coupling relays, analog modules, remote I/O, surge protection, passive interfaces  
Phone: +49 951 9324-995
  - DIN rail terminal blocks **fasis, selos**  
Phone: +49 951 9324-991
  - Industrial multipole connectors **revos**  
Phone: +49 951 9324-992
  - PCB terminals and connectors **wiecon**  
Appliance terminals, european terminal strips, housings for electronic components  
Phone: +49 951 9324-993
- Fax: +49 951 9326-991  
e-mail: [AT.TS@wieland-electric.com](mailto:AT.TS@wieland-electric.com)

### Sales service:

- To contact our sales department regarding availability, delivery schedules, and pricing please call  
Phone: +49 951 9324-990

### Technical support

#### Building services engineering:

- System connectors for building installation  
**gesis** CON, **gesis** RAN, **gesis** ELECTRONIC  
Phone: +49 951 9324-996
- DIN rail terminal blocks **fasis** BIT, **selos** BIT  
Phone: +49 951 9324-991  
Fax: +49 951 9326-996  
e-mail: [BIT.TS@wieland-electric.com](mailto:BIT.TS@wieland-electric.com)

### Technical support

#### Photovoltaics/solar technology:

- Photovoltaics **gesis** SOLAR  
Phone: +49 951 9324-972  
Fax: +49 951 9326-977  
e-mail: [Solar@wieland-electric.com](mailto:Solar@wieland-electric.com)

### Additional information for pluggable installation:

- gesis** CON  
The Art of Plugging Part No. 0600.1
- gesis** IP+ (outdoor) Part No. 0690.1

#### for remote electronic distribution units:

- gesis** ELECTRONIC Part No. 0700.1
- gesis** RAN Part No. 0409.1

#### for solar technology:

- gesis** SOLAR flyer Part No. 0411.1
- gesis** SOLAR catalog Part No. 0710.1

### Information about Wieland products in general:

- Wieland Product Overview** Part No. 0003.1

#### General information and news:

[www.wieland-electric.com](http://www.wieland-electric.com)

Visit our eCAT at

<http://eshop.wieland-electric.com>





## Our subsidiaries

... and the addresses of our representations worldwide are available at:

[www.wieland-electric.com](http://www.wieland-electric.com)



### USA

**Wieland Electric Inc.**  
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◀ Informational material for ordering and for downloading from our websites



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## Industrial technology

### Solutions for the control cabinet

- DIN rail terminal blocks
  - Screw, tension spring or push-in connection technology
  - Wire cross sections up to 240 mm<sup>2</sup>
  - Numerous special functions
  - Software solutions interfacing to CAE systems
- Safety
  - Safe signal acquisition
  - Safety switching devices
  - Modular safety modules
  - Compact safety controllers
  - Applicative consultancy and training
- Network engineering and fieldbus systems
  - Remote maintenance via VPN industrial router and VPN service portal
  - Industrial Ethernet switches
  - PLC and I/O systems, standard and increased environmental conditions
- Interface
  - Power supply units
  - Overvoltage protection
  - Coupling relays, semiconductor switches
  - Timer relays, measuring and monitoring relays
  - Analog coupling and converter modules
  - Passive interfaces

### Solutions for field applications

- Decentralized installation and automation technology
  - Electrical installation for wind tower
  - Fieldbus interfaces and motor starters
- Connectors for industrial applications
  - Rectangular and round connectors
  - Aluminum or plastic housings
  - Degree of protection up to IP68
  - Current-carrying capacity up to 100 A
  - Connectors for hazardous areas
  - Modular, application-specific technology

### PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5mm to 10.16mm
- Reflow or wave soldering process

## Building and installation technology

- Building installation systems
  - Main power supply connectors IP20/IP65...IP68
  - Bus connectors
  - Low-voltage connectors
  - Power distribution system with flat cables
  - Distribution systems
  - Bus systems in KNX, LON and radio technology
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

contacts  
are  
green.